Service Manua

Vol. 2

DIGITAL VIDEO CASSETTE

Sec. 6 ***Block Diagrams***

Sec. 7 ***Schematic Diagrams***

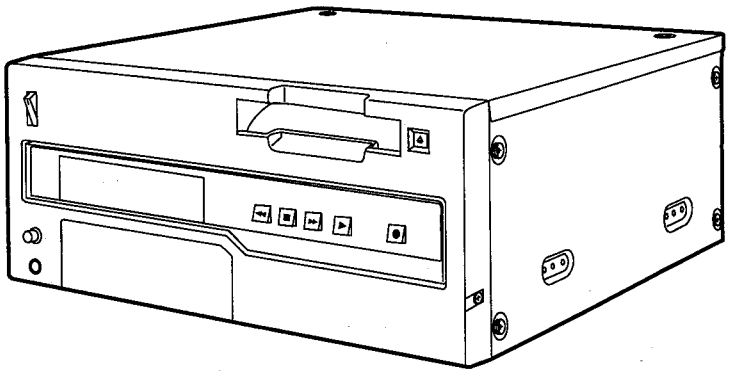
Sec. 8 ***Circuit Board Diagrams***

Digital Video Cassette Player

AJ-D440P/E

Digital Video Cassette Recorder

AJ-D450P/E



Please refer to the Service Manual Volume 1 (order No. VSD9907M904A) for Operating Instructions, Service Information, Maintenance & Mechanical Adjustments, Electrical Adjustments and Expoded Views & Replacement Parts List.

Panasonic®

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicans. Any attempt to service or repair the product or products deal with in this service manual by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains echnical information which will allow service personnels to understand and sercice the DVCPRO Studio VTR AJ-D440P/E and AJ-D450P/E.

If the part or circuit is changed or modified, this information will be followed by supplimentary service manual to be filed with original manual.

Vol. 2

CONTENTS

Specifications

AJ-D440P AJ-D450P

GENERAL

Power supply:	AC 120 V, 50 – 60 Hz
Power consumption:	AJ-D440; 120 W AJ-D450; 150 W

Operating ambient temperature:	41°F to 104°F (5°C to 40°C)
Operating ambient humidity:	10% to 90% (no condensation)
Weight:	AJ-D440; 33 lbs (15 kg) AJ-D450; 34.98 lbs (15.9 kg)
Dimensions (W × H × D):	16-3/4 × 6-15/16 ×16-3/8 inches (424 × 175 × 415 mm)
Recording format:	DVCPRO format
Recording tracks:	Digital video Recorded in sub-code area Time code; 2channels Digital audio; 1 track Cue Track; 1 track Control (CTL);
Tape speed:	33.820 mm/sec
Recording time:	184 minutes (with AJ-5P92LP) 66 minutes (with AJ-P66MP)
Tape:	1/4-inch thin magnetic layer metal tape
FF/REW time:	Less than 3 min (with AJ-5P92LP) Less than 2 min (with AJ-P66MP)
Editing accuracy*:	±0 frame (using time code)
Tape timer accuracy:	±1 frame (using continuous CTL signal)
Servo lock time:	Less than 0.5 sec. (color framing/ standby ON)

VIDEO

(Digital video)

Sampling frequencies:	Y; 13.5 MHz/PB, PR; 3.375 MHz
Quantizing:	8 bits
Error correction:	Reed-Solomon product code

(Digital IN/analog component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (±1.0 dB) PB, PR; 30 Hz to 1.0 MHz (±1.0 dB)
S/N ratio:	Better than 56 dB
K factor:	Less than 2%

(Analog component IN/component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (–1.5 dB to +1.0 dB) PB, PR; 30 Hz to 1.0 MHz (–2.0 dB to +1.0 dB)
S/N ratio:	Better than 55 dB
K factor:	Less than 2%

(Analog composite IN/composite OUT)

Video bandwidth:	Y; 30 Hz to 4.5 MHz (–1.5 dB to +1.0 dB)
DG:	Less than 4%
DP:	Less than 3°
Y/C delay:	Better than 20 ns
K factor:	Less than 3%
S/N ratio:	Better than 48 dB

(Video input connector)*

Analog component input*:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
Analog composite input*:	BNC×2, loop-through, 75Ω on/off
S VIDEO input*:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω
Reference input:	Analog composite BNC×2, loop-through, 75Ω on/off
Serial digital component input (option)*:	Complies with SMPTE259M-C standard, BNC×2, active through

(Video output connector)

Analog component output:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
Analog composite output:	BNC×3 Video1/video2/video3 (superimpose on/off)
S VIDEO output:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω
Serial digital component output (option):	Complies with SMPTE259M-C standard, BNC×3

(Video signals adjustment)

Video output gain:	±3 dB	Control from ENCODER REMOTE connector
Video output chroma gain:	±3 dB	
Video output hue:	±30°	
Video output setup:	±15 IRE	
Video output sync phase:	±2 µs	
Video output SC phase:	±180°	

AUDIO

(Digital audio)

Sampling frequencies:	48 kHz
Quantizing:	16 bits
Frequency response:	20 Hz to 20 kHz (±1.0 dB)
Dynamic range:	Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion:	Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk:	Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter:	Below measurable limits
Headroom:	20 dB
De-emphasis:	T1=50 µs/T2=15 µs (on/off automatic)

(Cue track)

Frequency response:	300 Hz to 6 kHz ±3 dB

(Audio input connector)*

Analog input (CH1/CH2):	XLR×2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2) (option):	BNC×1, AES/EBU format
Serial digital input (option):	Complies with SMPTE259M-C, 272M standard (BNC)

(Audio output connector)

Analog output (CH1/CH2):	XLR×2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2) (option):	BNC×1, AES/EBU format
Serial digital output (option):	Complies with SMPTE259M-C, 272M standard (BNC)
Monitor output:	Phono×1, 600 Ω, –8 dBV
Headphones:	Variable level, 1/4" phone, 8Ω

Other input/output connector

Time code input*:	BNC×1, 0.5 to 8 Vp-p
Time code output:	BNC×1, 2.0 Vp-p
RS-422A input/output:	D-sub 9-pin, RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Encoder remote:	D-sub 15-pin

Weight and dimensions when shown are approximately.
Specifications are subject to change without notice.

*** Items marked with an asterisk (*) indicate AJ-D450 only.**

IMPORTANT
"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

AJ-D440P AJ-D450P

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:
To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

WARNING:
To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO AUTHORIZED SERVICE PERSONNEL.

FCC Note:
This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

☐ is the safety information.

- Do not insert fingers or any objects into the video casette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the recorder and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, protect it from dirt and dust.
- Do not leave a cassette in the recorder when not in use.
- Do not block the ventilation slots of the unit.
- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Cassette tape can be used for either Color or Black & White recording.
- Do not attempt to disassemble the recorder. There are no user serviceable parts inside.
- If any liquid spills inside the recorder, have the recorder examined for possible damage.
- Refer any needed servicing to authorized service personnel.

Specifications

GENERAL

Power supply:	AC 220 V – 240 V, 50 – 60 Hz
Power consumption:	AJ-D440; 130 W AJ-D450; 150 W

Operating ambient temperature:	5°C to 40°C
Operating ambient humidity:	10% to 90% (no condensation)
Weight:	AJ-D440; 14.6 kg AJ-D450; 15.5 kg
Dimensions (W × H × D):	424 × 175 × 415 mm
Recording format:	DVCPRO format
Recording tracks:	Digital video Time code; Recorded in sub-code area Digital audio; 2 channels Cue Signal; 1 track Control (CTL); 1 track
Tape speed:	33.854 mm/sec.
Recording time:	184 minutes (with AJ-5P92LP) 66 minutes (with AJ-P66MP)
Tape:	1/4-inch thin magnetic layer metal tape
FF/REW time:	Less than 3 min (with AJ-5P92LP) Less than 2 min (with AJ-P66MP)
Editing accuracy*:	±0 frame (using time code)
Tape timer accuracy:	±1 frame (using continuous CTL signal)
Servo lock time:	Less than 0.5 sec. (colour framing/standby ON)

VIDEO

(Digital video)

Sampling frequencies:	Y; 13.5 MHz/P_B, P_R; 3.375 MHz
Quantizing:	8 bits
Error correction:	Reed-Solomon product code

(Digital IN/analogue component OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (±1.0 dB) P_B, P_R; 25 Hz to 1.3 MHz (±1.0 dB)
S/N ratio:	Better than 56 dB
K factor:	Less than 2%

(Analogue component IN/component OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB) P_B, P_R; 25 Hz to 1.3 MHz (–2.0 dB to +1.0 dB)
S/N ratio:	Better than 55 dB
K factor:	Less than 2%

(Analogue composite IN/composite OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB)
DG:	Less than 4%
DP:	Less than 3°
Y/C delay:	Better than 20 ns
K factor:	Less than 3%
S/N ratio:	Better than 48 dB

(Video input connector)*

Analogue component input*:	BNC×3 (Y, P_B, P_R) Y; 1.0 Vp-p, 75Ω P_B, P_R; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite input*:	BNC×2, loop-through, 75Ω on/off
S VIDEO input*:	S terminal (4-pin) × 1 Y; 1.0 Vp-p, 75Ω C; 0.3 Vp-p (burst), 75Ω
Reference input:	Analogue composite BNC × 2, loop-through, 75Ω on/off
Serial digital component input (option)*:	Complies with EBU Tech. 3267-E standard, BNC × 2, active through

(Video output connector)

Analogue component output:	BNC × 3 (Y, P_B, P_R) Y; 1.0 Vp-p, 75Ω P_B, P_R; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite output:	BNC × 3 Video1/video2/video3 (superimpose on/off)
S VIDEO output:	S terminal (4-pin) × 1 Y; 1.0 Vp-p, 75Ω C; 0.3 Vp-p (burst), 75Ω
Serial digital component output (option):	Complies with EBU Tech. 3267-E standard, BNC × 3

(Video signals adjustment)

Video output gain:	±3 dB	Control from ENCODER REMOTE connector
Video output chroma gain:	±3 dB	
Video output chroma phase:	±30°	
Video output black level:	±100 mV	
Video output sync phase:	±2 µsec	
Video output SC phase:	±180°	

AUDIO

(Digital audio)

Sampling frequencies:	48 kHz
Quantizing:	16 bits
Frequency response:	20 Hz to 20 kHz (±1.0 dB)
Dynamic range:	Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion:	Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk:	Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter:	Below measurable limits
Headroom:	18 dB
De-emphasis:	T1 = 50 µsec/T2 = 15 µsec (on/off automatic)

(Cue track)

Frequency response:	300 Hz to 6 kHz ±3 dB

(Audio input connector)*

Analogue input (CH1/CH2):	XLR × 2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2) (option):	BNC × 1, AES/EBU format
Serial digital input (option):	Complies with EBU Tech. 3267-E standard (BNC)

(Audio output connector)

Analogue output (CH1/CH2):	XLR × 2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2) (option):	BNC × 1, AES/EBU format
Serial digital output (option):	Complies with EBU Tech. 3267-E standard (BNC)
Monitor output:	Phono×1, 600Ω, –8 dBV
Headphones:	Variable level, 1/4" phone, 8Ω

Other input/output connector

Time code input*:	BNC × 1, 0.5 to 8 Vp-p
Time code output:	BNC × 1, 2.0 Vp-p
RS-422A input/output:	D-sub 9-pin, RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Encoder remote:	D-sub 15-pin

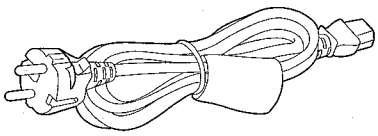
*** Items marked with an asterisk (*) indicate AJ-D450 only.**

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

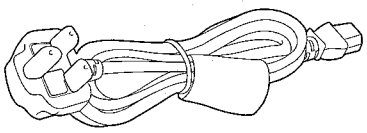
Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC.
Not to be used in the U.K.



FOR U.K. ONLY
If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.



FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 13 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.
WARNING: THIS APPLIANCE MUST BE EARTHED.
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

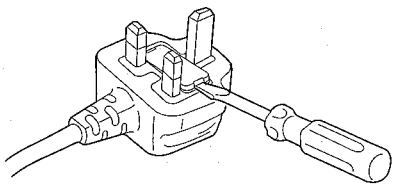
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

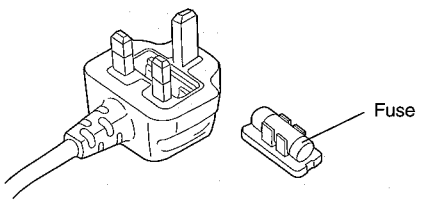
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



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■ **THIS APPARATUS MUST BE EARTHED**
To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.
Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.
The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

■ **DO NOT REMOVE PANEL COVER BY UNSCREWING**
To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. And do not insert fingers or any other objects into the video cassette holder.

WARNING:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSOIRES ONLY.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL BOARD TO QUALIFIED SERVICE PERSONNEL.

Operating precaution
Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio singals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

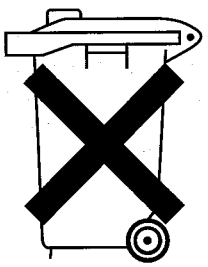
CAUTION:
Do not install or place this unit in a bookcase, built-in cabinet or another confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

☐ is the safety information.

Attention/Attentie

- This apparatus contains a lithium battery for memory back-up.
- For the removal of the battery at the moment of the disposal at the end of the service life please consult your dealer.
- Do not throw away the battery. Instead, hand it in as hazardous waste.

- Dit apparaat bevat een lithiumbatterij voor memory back-up.
- Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.
- Gooi de batterij niet weg, maar lever hem in als KCA.



SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

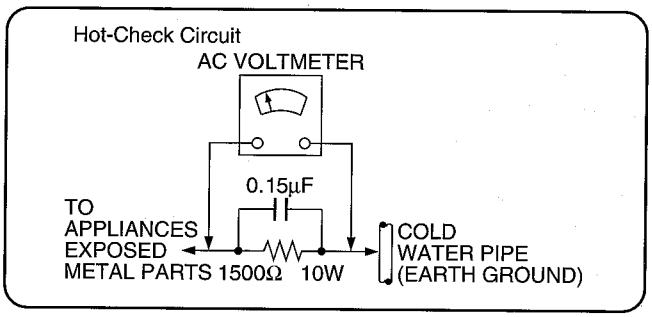


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 W resistor, in parallel with a 0.15μF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

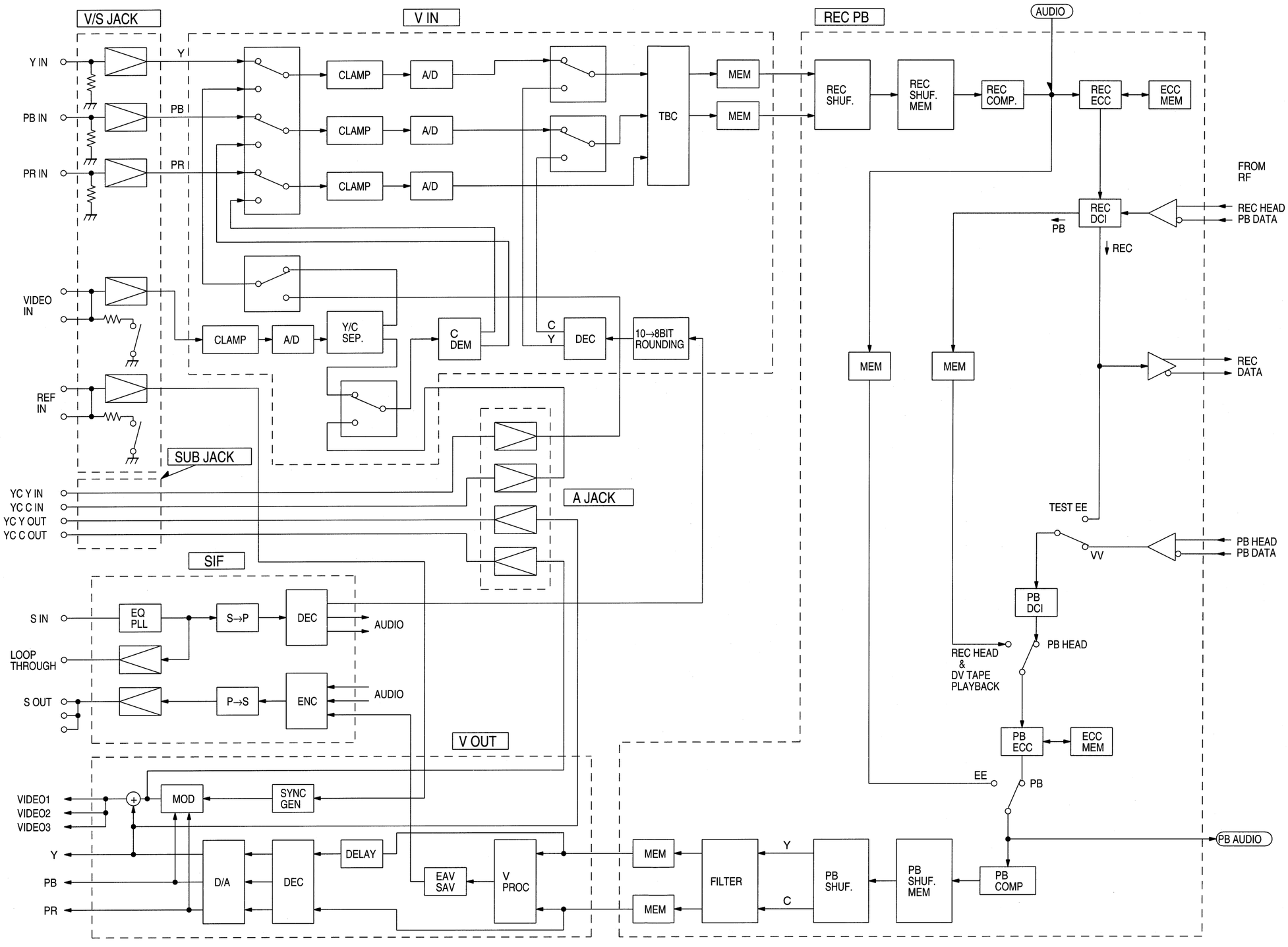
3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ± 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

SECTION 6

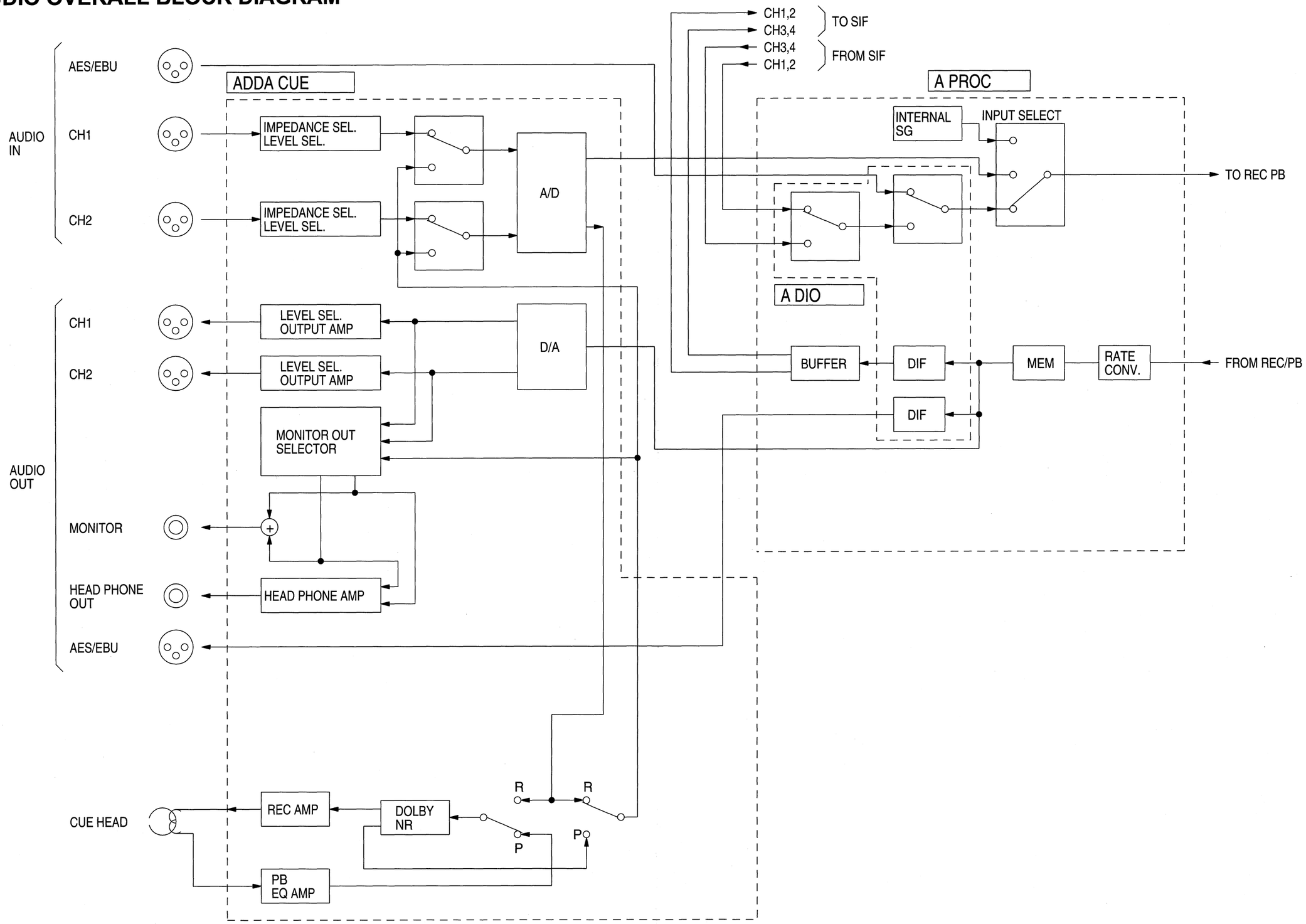
BLOCK DIAGRAM

CONTENTS

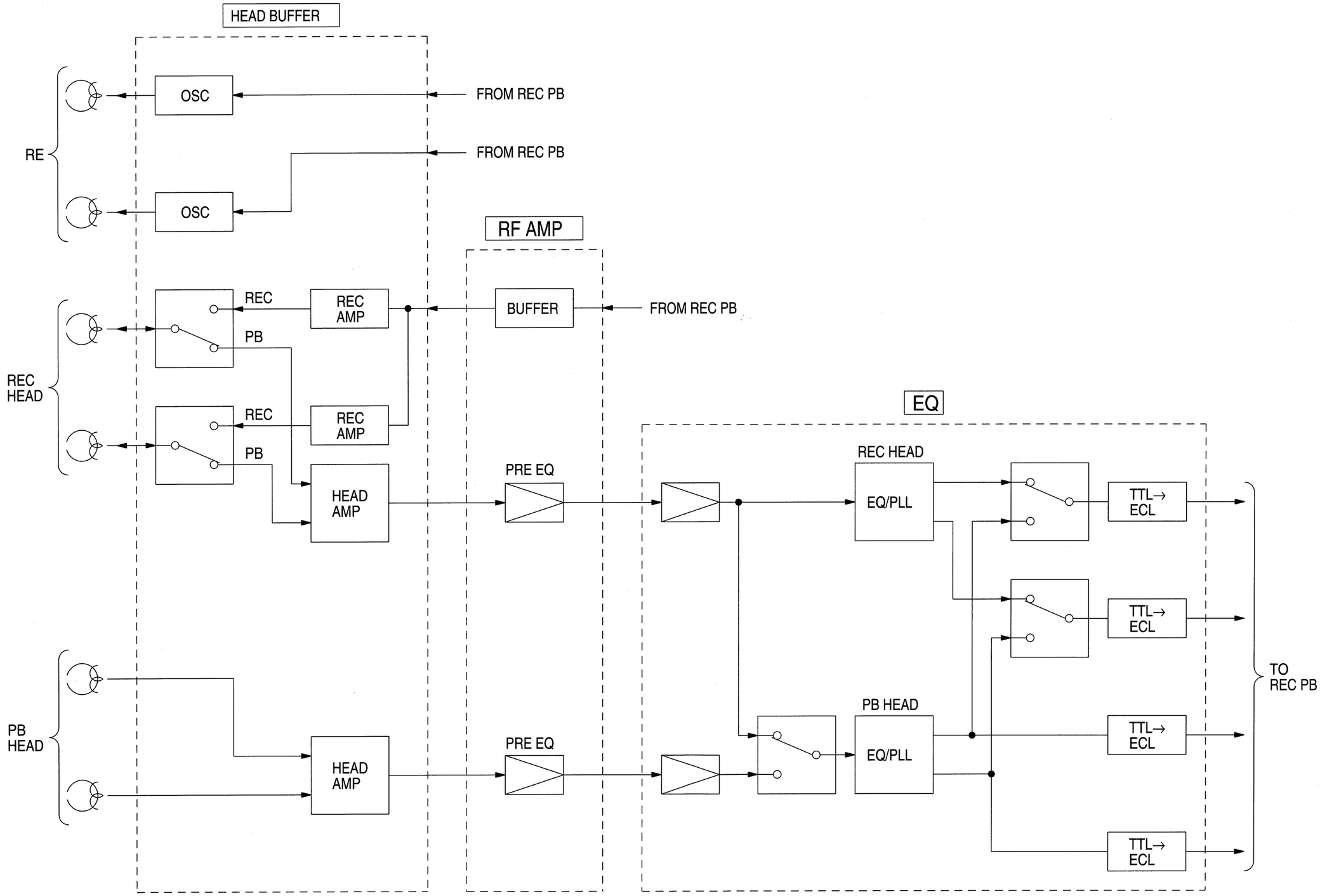
VIDEO OVERALL BLOCK DIAGRAM



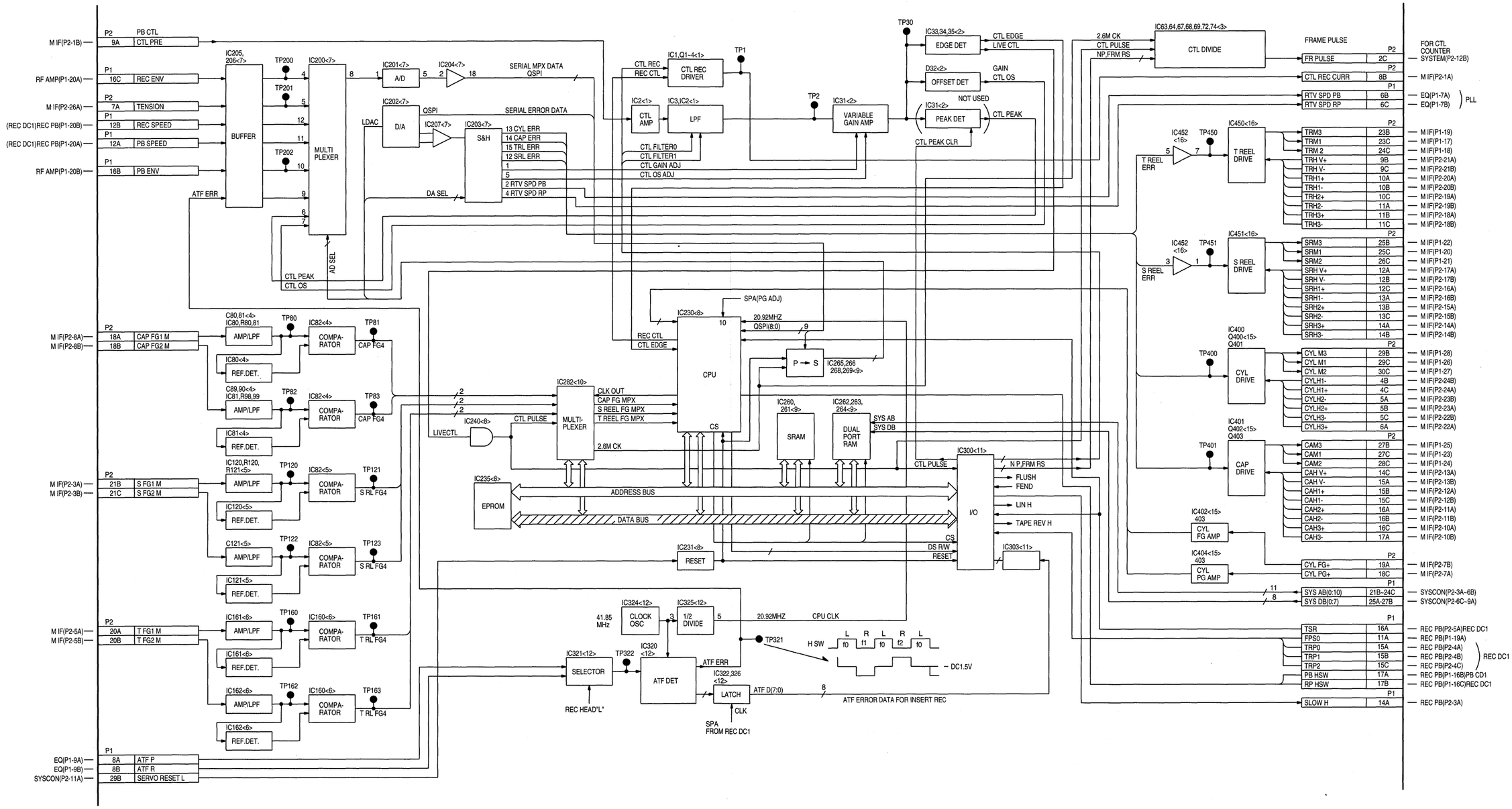
AUDIO OVERALL BLOCK DIAGRAM



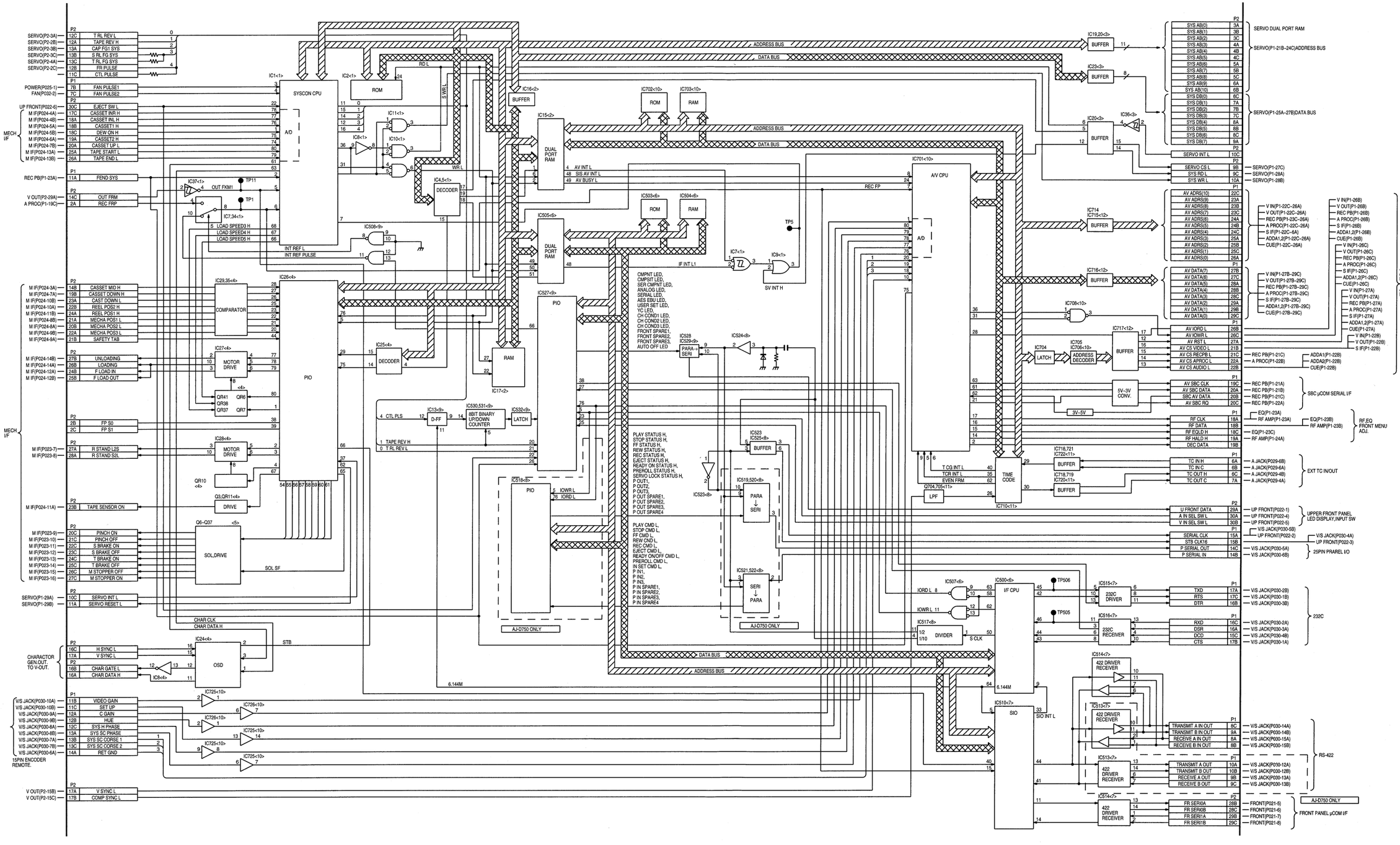
RF OVERALL BLOCK DIAGRAM



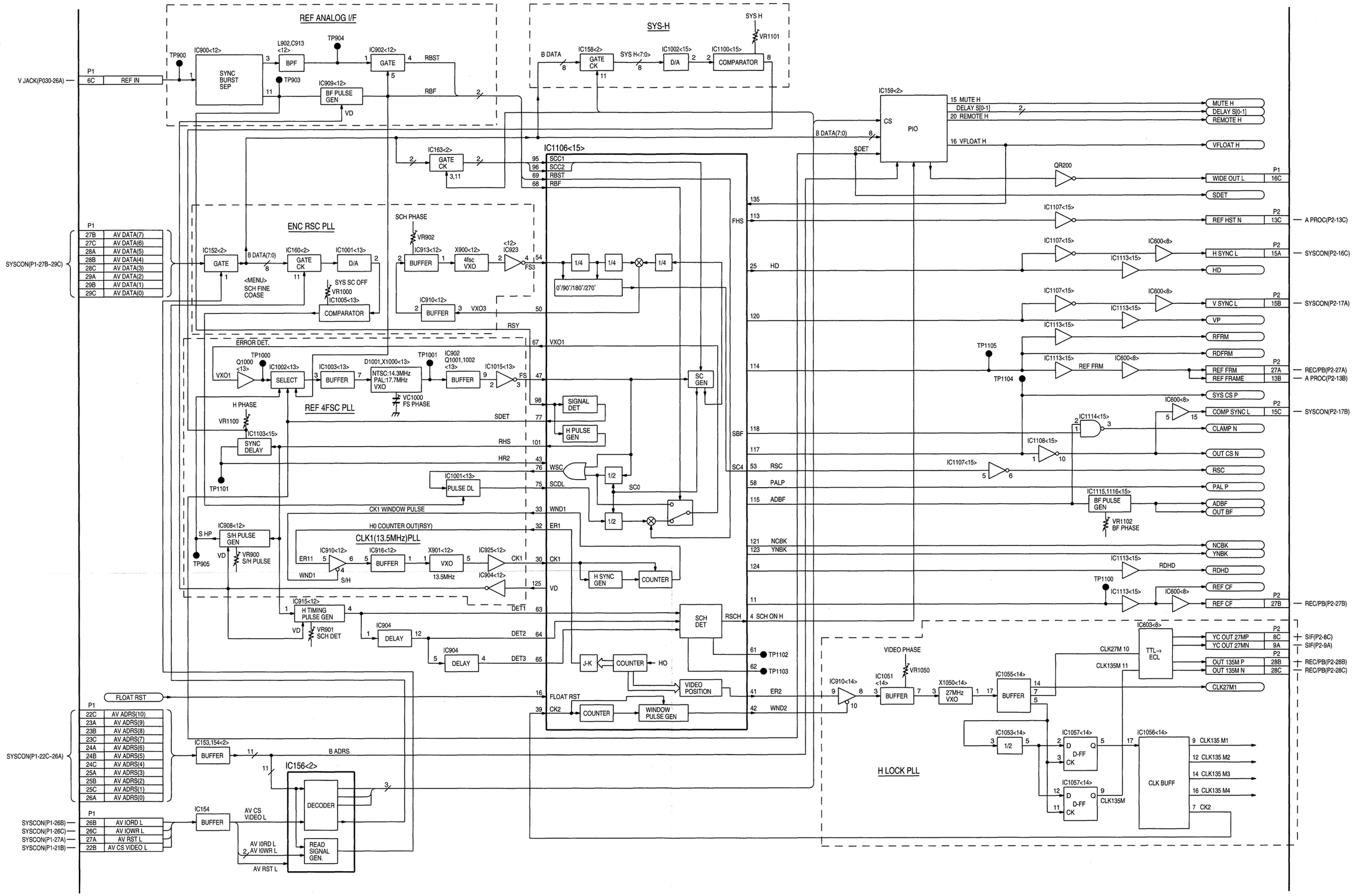
F1: SERVO BLOCK DIAGRAM



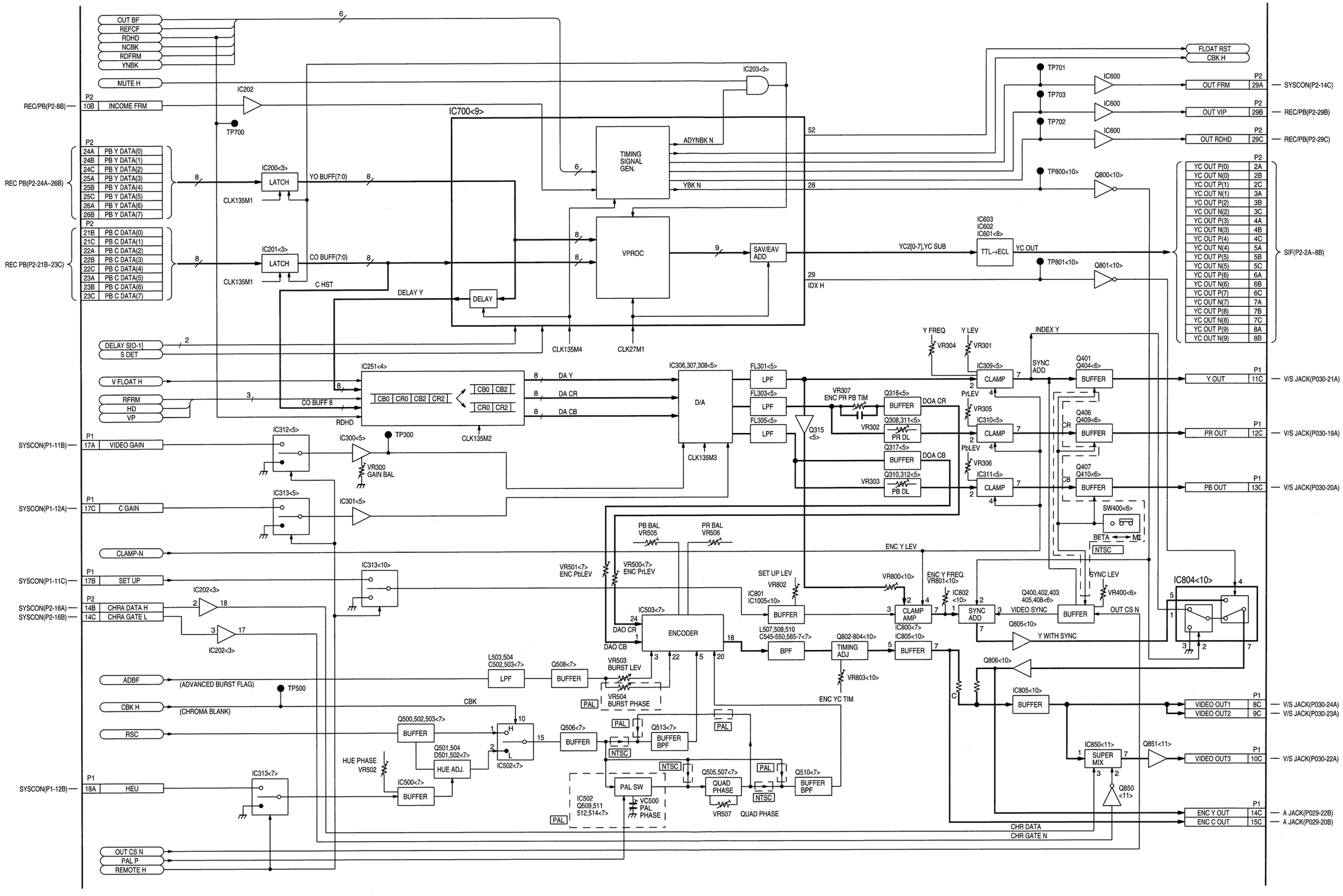
F2: SYSCON BLOCK DIAGRAM



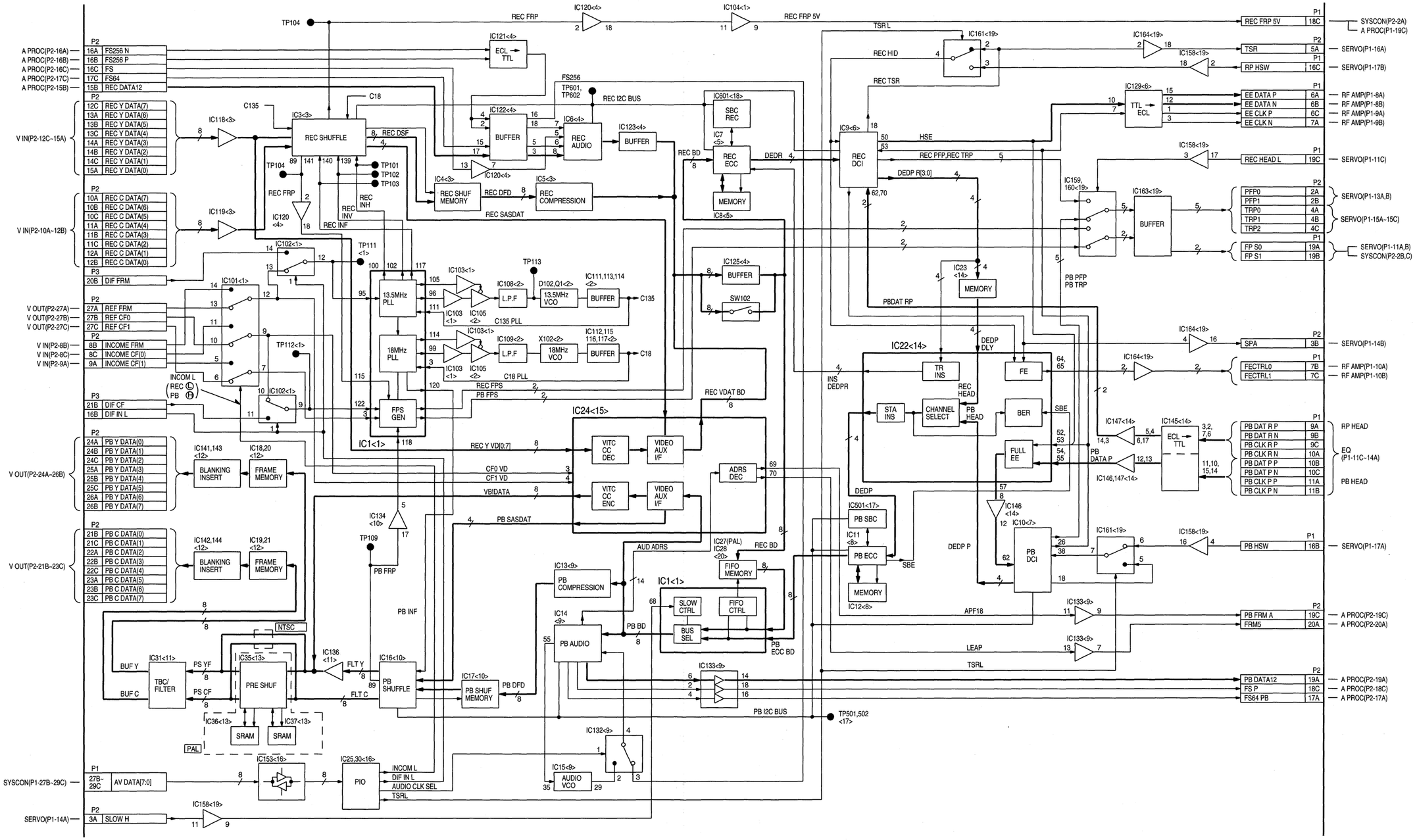
F4: V OUT 1/2 BLOCK DIAGRAM



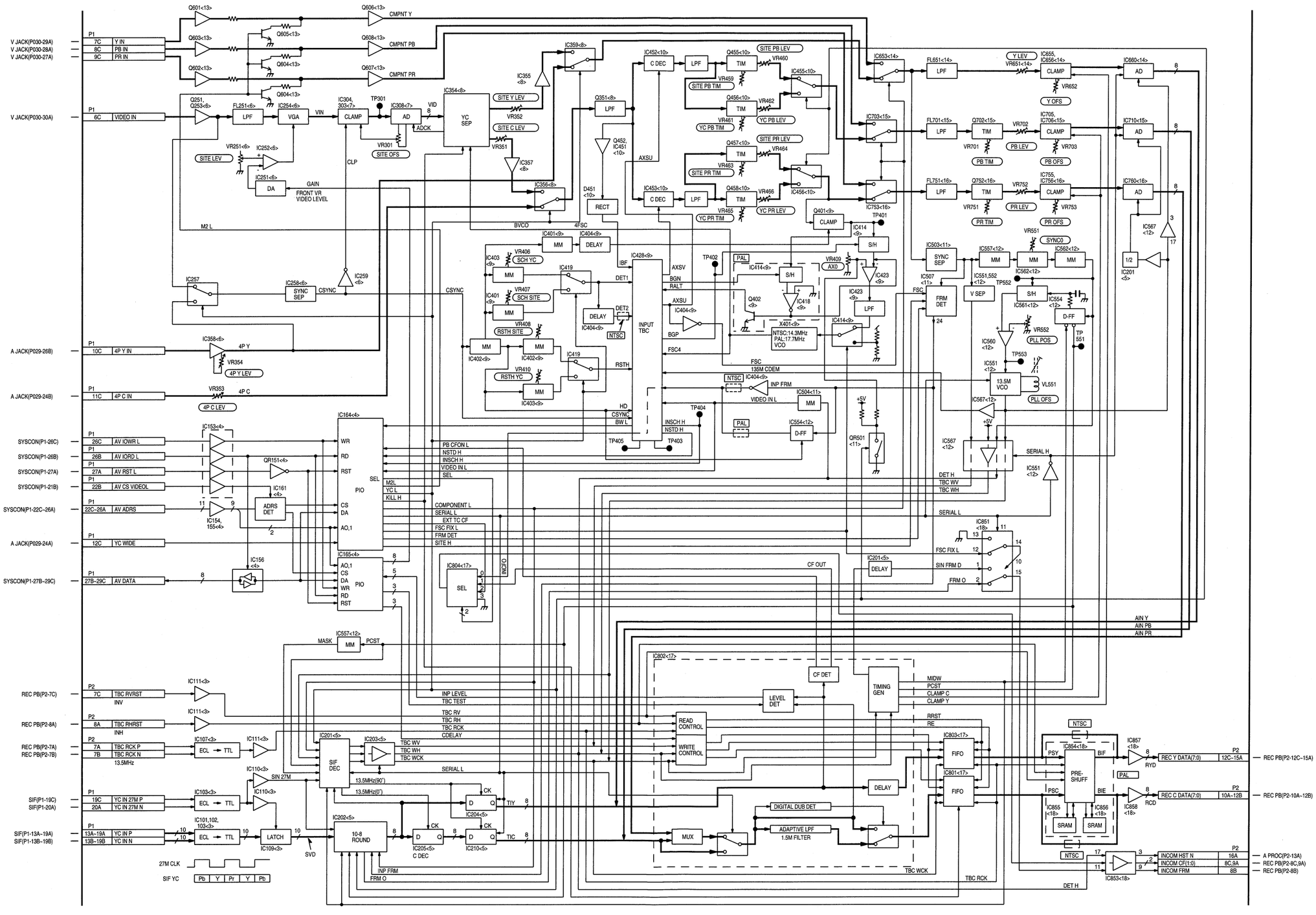
F4: V OUT 2/2 BLOCK DIAGRAM



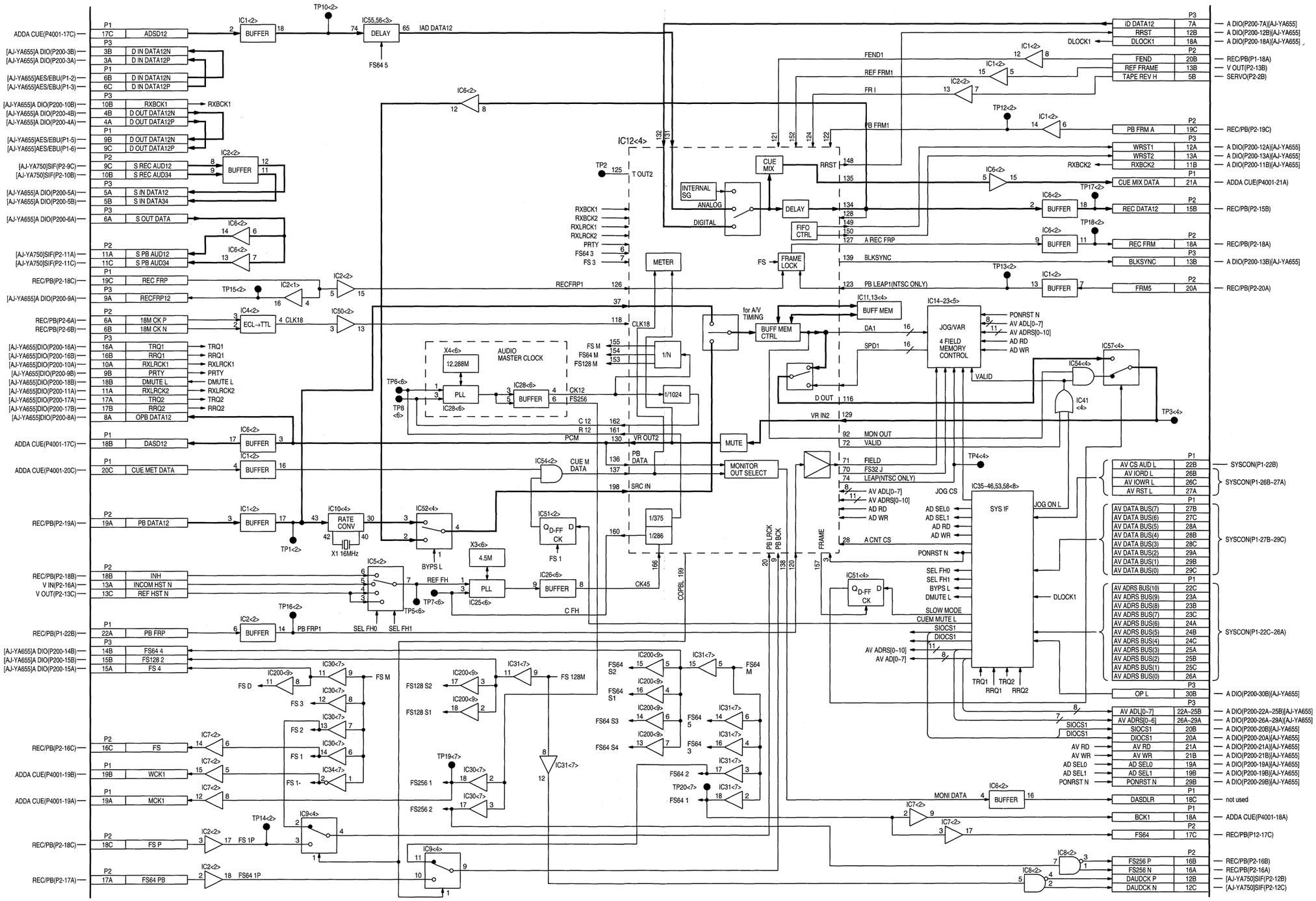
F5: REC/PB BLOCK DIAGRAM



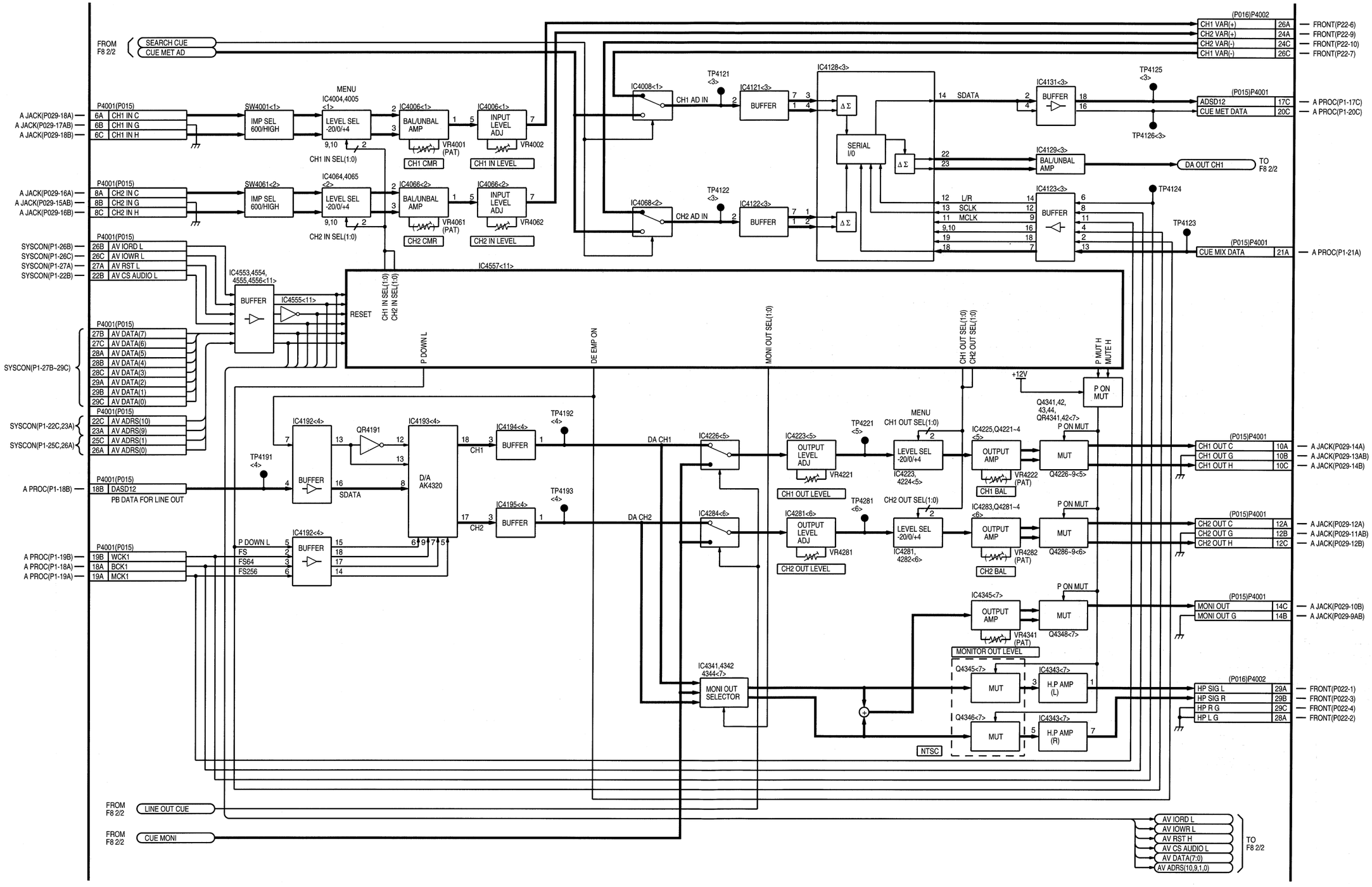
F6: V IN BLOCK DIAGRAM



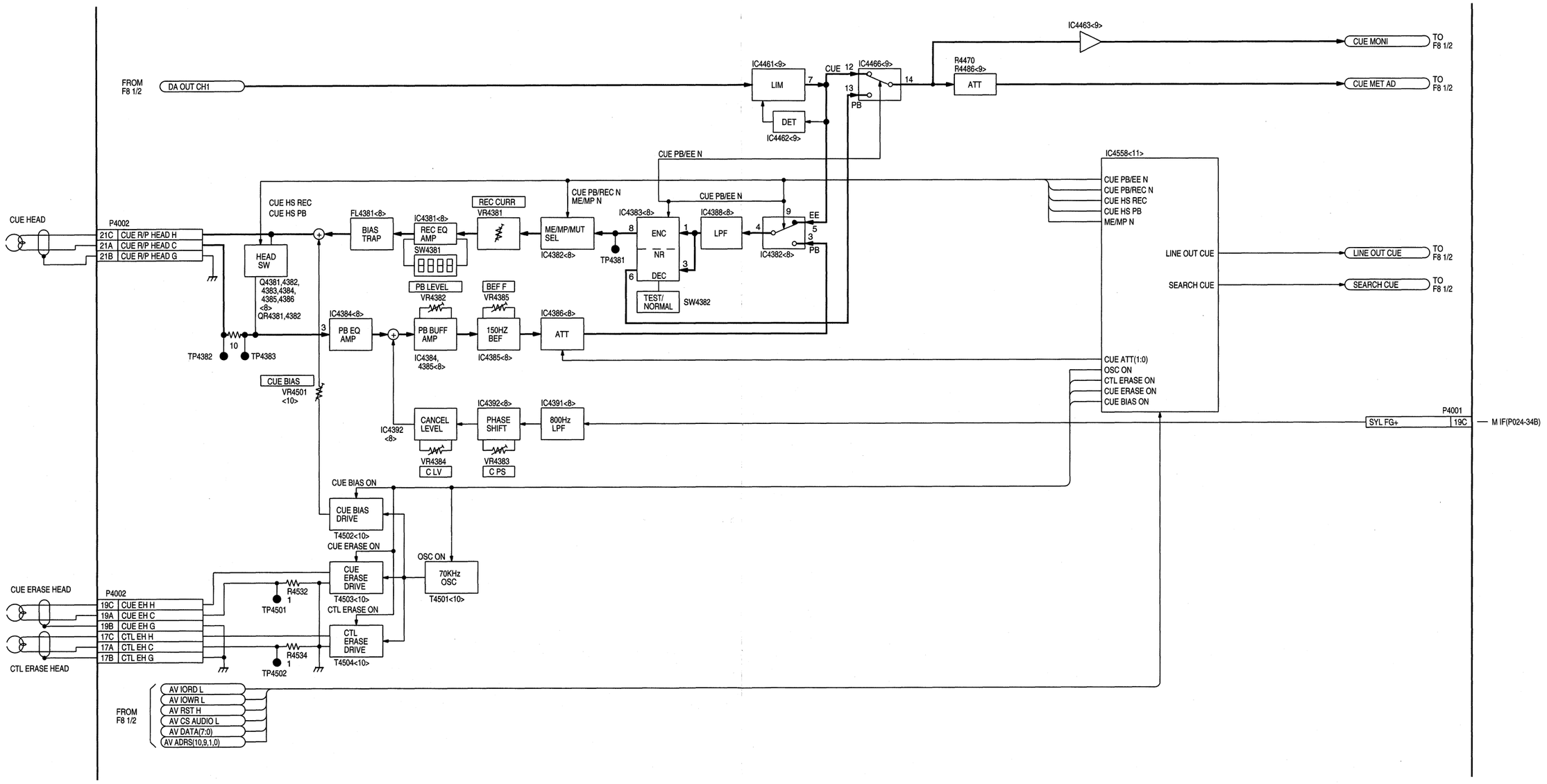
F7: A PROC BLOCK DIAGRAM



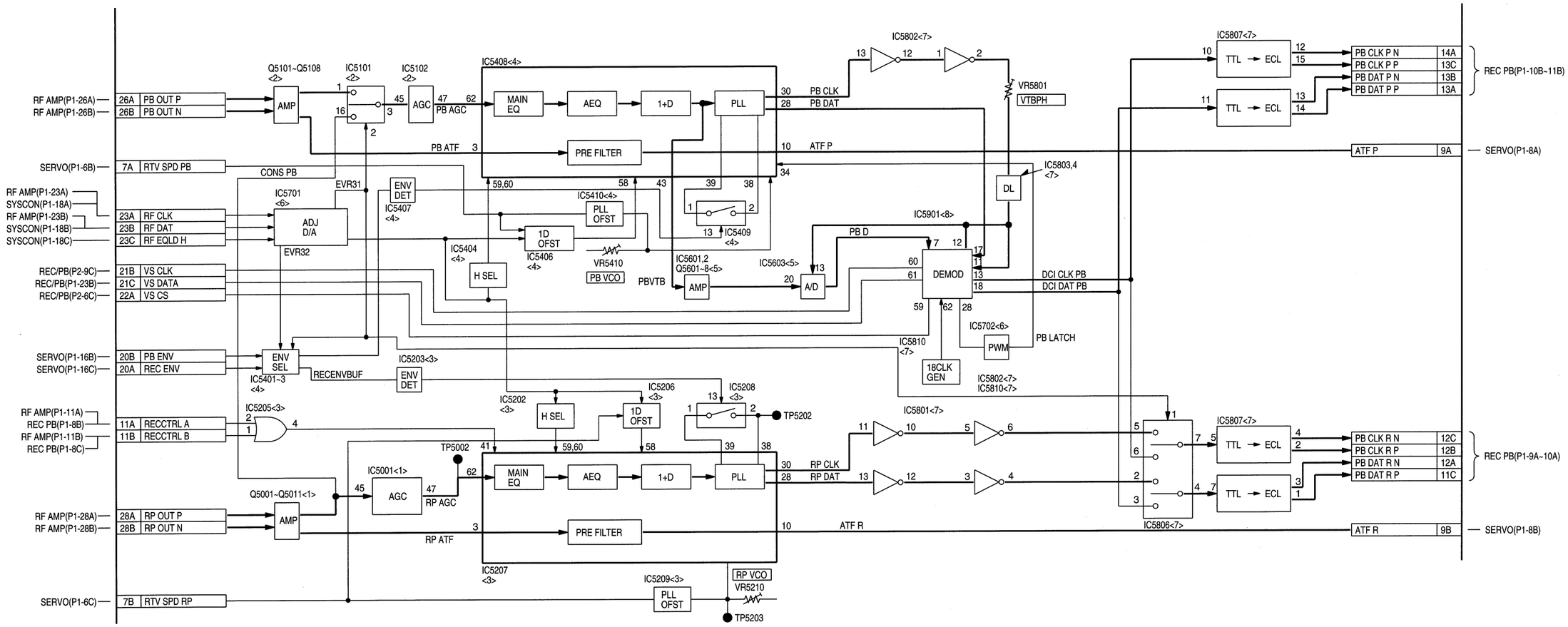
F8: ADDA CUE 1/2 BLOCK DIAGRAM



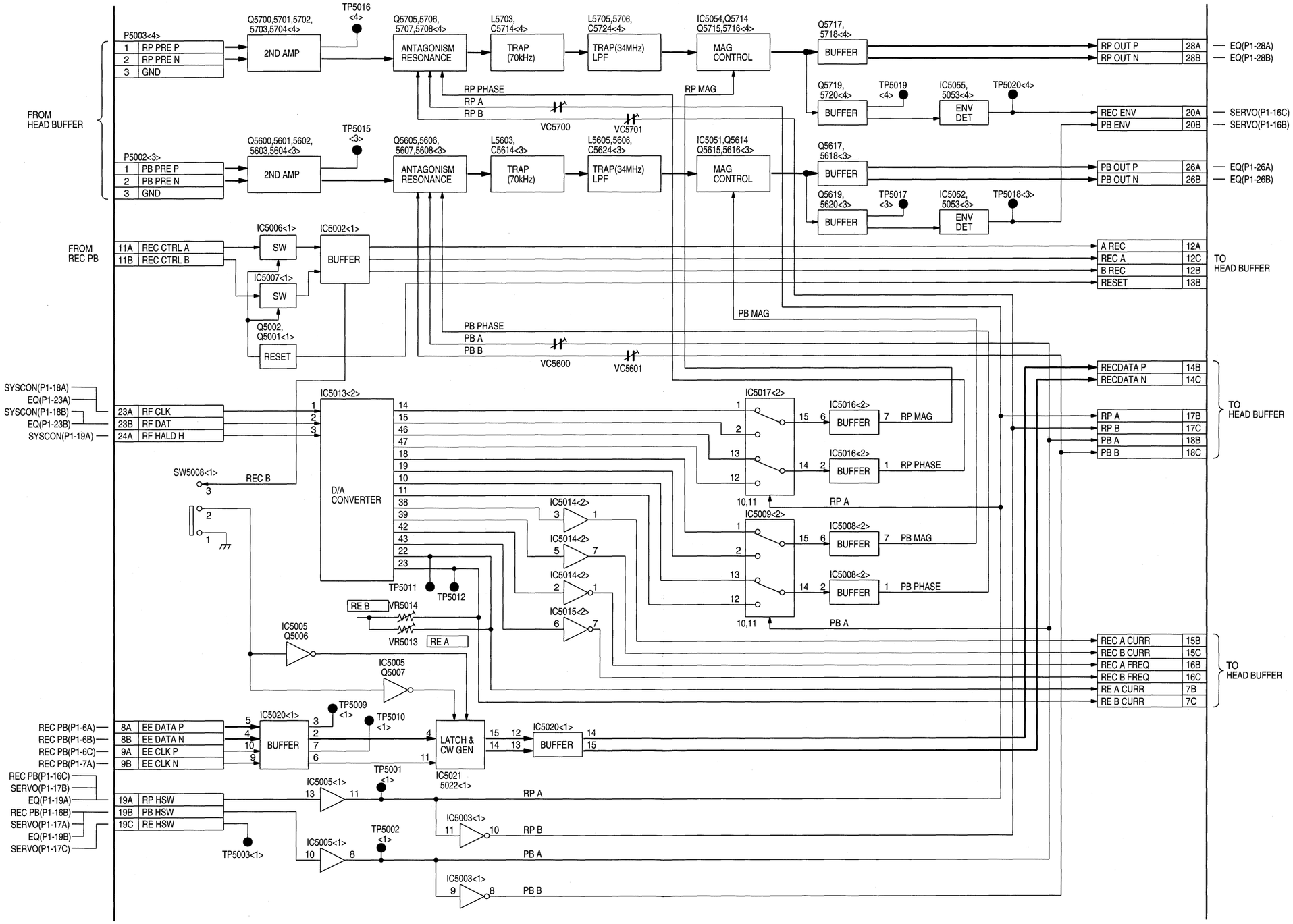
F8: ADDA CUE 2/2 BLOCK DIAGRAM



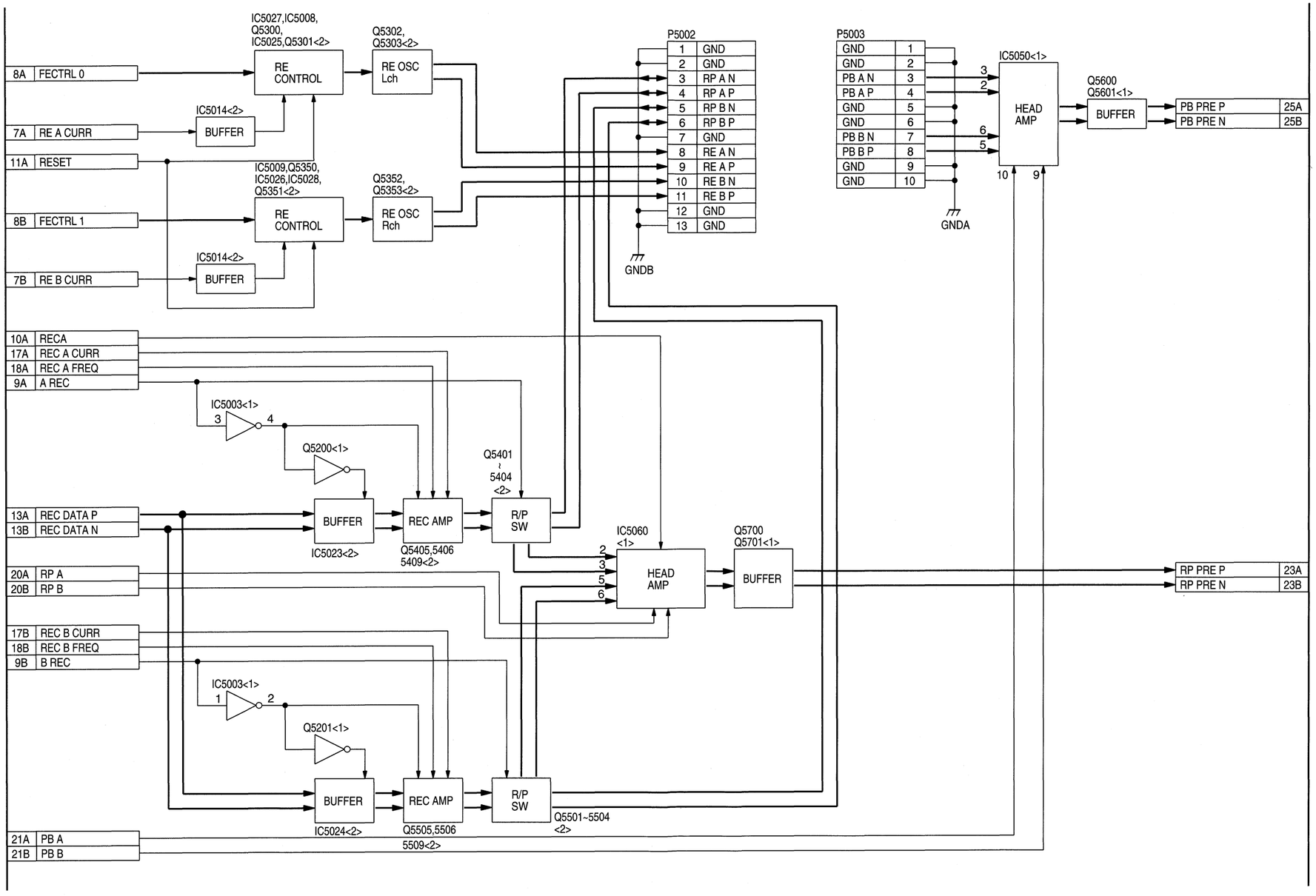
H3 EQ BLOCK DIAGRAM



H4 RF AMP BLOCK DIAGRAM



HEAD BUFFER BLOCK DIAGRAM

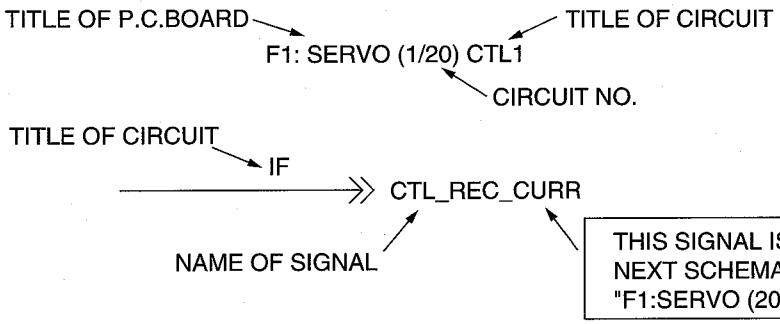


SECTION 7

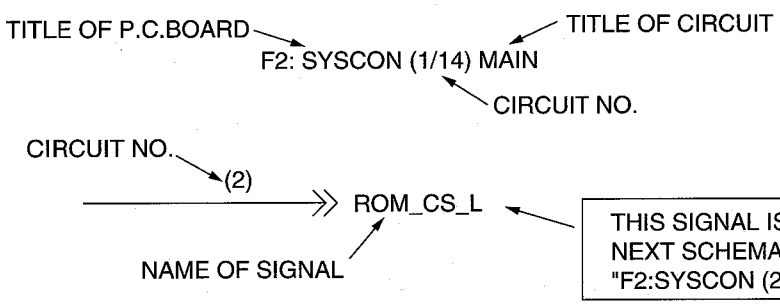
SCHEMATIC DIAGRAMS

Note:
1. Do not use the part number shown on the schematic diagram or P.C.Board layout for ordering.
   The correct part number for ordering is shown in the Exploded Views/Parts List section.
2. Unless otherwise specified, all resistors are in OHMS,
   K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.

(EX1)



(EX2)



* mark ⇒ Parts value, see table in the schematic diagram.

(EX:)

	AJ-D940P	AJ-D940E	
R2018	10K	10K	← 10KΩ
R2019	20K	*PAT	← No part

NOTE:
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST.
AND MAY BE SLIGHTLY DIFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

450 (PAL) ONLY

SERVO (F1)

P001
VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
	6A	GND	
	7A	GND	
P19_9A	8A	ATF_P	
	9A	GND	
P9_18A, P14_20B	10A	FEND	
P9_19A, P4_2B	11A	FP_S0	
P9_20A	12A	PB_SPEED	
P9_2A	13A	PFP0	
P9_3A	14A	SLOW_H	
P9_4A	15A	TRP0	
P9_5A	16A	TSR	
P9_16B, P20_19B, P19_19B	17A	PB_HSW	
P23_29	18A	LOAD_FG	
	19A		
	20A		
	21A		
P4_3C	22A	SYS_AB2	
P4_4C	23A	SYS_AB5	
P4_5C	24A	SYS_AB8	
P4_6C	25A	SYS_DB0	
P4_7C	26A	SYS_DB3	
P4_8C	27A	SYS_DB6	
P4_9C	28A	SYS_RD_L	
P4_10C	29A	SERVO_INT_L	
	30A	+5V	
	31A	-5V	
	32A	GND	

P001
VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
P19_7A	6B	RTV_SPD_PB	
P19_8A	7B	REF_CLK	
P19_9B	8B	ATF_R	
	9B	GND	
P9_18B	10B	FLUSH	
P9_19B, P4_2C	11B	FP_S1	
P9_20B	12B	REC_SPEED	
P9_2B	13B	PFP1	
P9_3B	14B	SPA	
P9_4B	15B	TRP1	
P20_20B	16B	PB_ENV	
P20_19A, P9_16C, P19_19A	17B	RP_HSW	
	18B		
	19B	GND	
	20B		
P4_3A	21B	SYS_AB0	
P4_4A	22B	SYS_AB3	
P4_5A	23B	SYS_AB6	
P4_6A	24B	SYS_AB9	
P4_7A	25B	SYS_DB1	
P4_8A	26B	SYS_DB4	
P4_9A	27B	SYS_DB7	
P4_10A	28B	SYS_WR_L	
P4_11A	29B	SERVO_RESET_L	
	30B	+5V	
	31B	-5V	
	32B	GND	

P001
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
P19_7B	6C	RTV_SPD_RP	
	7C	GND	
	8C	GND	
	9C	GND	
	10C		
P9_19C	11C	REC_HEAD_L	
	12C		
P9_2C	13C	LIN_H	
P9_3C	14C	STILL_H	
P9_4C	15C	TRP2	
P20_20A	16C	REC_ENV	
P20_19C	17C	RE_HSW	
	18C		
	19C	GND	
	20C		
P4_3B	21C	SYS_AB1	
P4_4B	22C	SYS_AB4	
P4_5B	23C	SYS_AB7	
P4_6B	24C	SYS_AB10	
P4_7B	25C	SYS_DB2	
P4_8B	26C	SYS_DB5	
P4_9B	27C	SERVO_CS_L	
P4_10B	28C	SYS_BUSY_L	
P4_11B	29C	SYS_SERVO_INT_L	
	30C	+5V	
	31C	-5V	
	32C	GND	

P002
VJS2899A096

	1A	GND	
P4_11C, P10_5C	2A	CTL_PULSE	
	3A		
P4_13C	4A	T_RL_FG_SYS	
P24_B18	5A	CYLH2-	
P24_A19	6A	CYLH3+	
P24_A15	7A	TENSION	
P24_B16	8A	CYLH_V-	
P24_B40	9A	CTL_PRE	
P24_A21	10A	TRH1+	
P24_B22	11A	TRH2-	
P24_A24	12A	SRH_V+	
P24_B25	13A	SRH1-	
P24_A27	14A	SRH3+	
P24_B28	15A	CAH_V-	
P24_A30	16A	CAH2+	
P24_B31	17A	CAH3-	
P24_A33	18A	CAP_FG1_M	
P24_B34	19A	CYL_FG+	
P24_A36	20A	T_FG1_M	
P24_B37	21A	S_FG_GND	
P4_A14	22A	LOAD_ERR_SYS	
	23A		
	24A		
	25A		
	26A		
	27A		
	28A		
	29A		
	30A		
J1 LAND	31A	+16V	
	32A	GND_M	

P002
VJS2899A096

	1B	GND	
P4_12A, P10_5B	2B	TAPE_REV_H	
P4_13A	3B	CAP_FG1_SYS	
P4_14A, P24_B17	4B	CYLH1-	
P24_A18	5B	CYLH2+	
P23_30	6B	CLE_ON_H	
P24_B15	7B	TENS_GND	
P24_A40	8B	CTL_REC_CURR	
P24_A20	9B	TRH_V+	
P24_B21	10B	TRH1-	
P24_A23	11B	TRH3+	
P24_B24	12B	SRH_V-	
P24_A26	13B	SRH2+	
P24_B27	14B	SRH3-	
P24_A29	15B	CAH1+	
P24_B30	16B	CAH2-	
P24_A32	17B	CAP_FG_VCC	
P24_B33	18B	CAP_FG2_M	
P24_A35	19B	T_FG_V	
P24_B36	20B	T_FG2_M	
P24_A38	21B	S_FG1_M	
P24_A39	22B	CYL_PF_GND	
P23_19	23B	TRM3	
	24B		
P23_22	25B	SRM3	
	26B		
P23_25	27B	CAM3	
	28B		
P23_28	29B	CYL_M3	
	30B		
	31B	+16V	
	32B	GND_M	

P002
VJS2899A096

	1C	GND	
P4_12B	2C	FR_PULSE	
P4_13B	3C	S_RL_FG_SYS	
P24_A17	4C	CYLH1+	
P24_B19	5C	CYLH3-	
P24_A1	6C	CHECK_LINE_2	
P24_A16	7C	CYLH_V+	
P24_B39	8C	CTL_GND	
P24_B20	9C	TRH_V-	
P24_A22	10C	TRH2+	
P24_B23	11C	TRH3-	
P24_A25	12C	SRH1+	
P24_B26	13C	SRH2-	
P24_A28	14C	CAH_V+	
P24_B29	15C	CAH1-	
P24_A31	16C	CAH3+	
P24_B32	17C	CAP_FG_GND	
P24_A34	18C	CYL_PG+	
P24_B35	19C	T_FG_GND	
P24_A37	20C	S_FG_V	
P24_B38	21C	S_FG2_M	
	22C		
P23_17	23C	TRM1	
P23_18	24C	TRM2	
P23_20	25C	SRM1	
P23_21	26C	SRM2	
P23_23	27C	CAM1	
P23_24	28C	CAM2	
P23_26	29C	CYL_M1	
P23_27	30C	CYL_M2	
	31C	+16V	
	32C	GND_M	

COMPONENT NAME	MOTHER CIRCUIT	01/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(1/11)		SCM1

SYSCON (F2)

P003
VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
P29_B6	6A	TC_IN_H	
P29_A4	7A	TC_OUT_C	
P30_A15	8A	RECEIVE_A_IO	
P30_B14	9A	TRANSMIT_B_IO	
P30_A12	10A	TRANSMIT_A_OUT	
P9_23A	11A	FEND_SYS	
P7_17C	12A	C_GAIN	
P30_B8	13A	SYS_SC_PHASE	
P30_A6	14A	RET_GND	
P30_B5, P22_2	15A	SERIAL_CLK	
P30_A3	16A	DSR	
P30_B2	17A	TXD	
P19_23A, P20_23A	18A	RF_CLK	
P20_24A	19A	RF_HALD_H	
P9_21B	20A	AV_SBC_DAT	
P5_10A	21A	P1394_A	
	22A	AV_CS_APROC_L	
	23A	AV_ADRS9	
	24A	AV_ADRS6	
	25A	AV_ADRS3	
	26A	AV_ADRS0	
COMMON	27A	AV_RST_L	
	28A	AV_DATA5	
	29A	AV_DATA2	
	30A	+5V	
	31A	-5V	
	32A	GND	

P003
VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
P29_A6	6B	TC_IN_C	
P25_1	7B	FAN_PULSE1	
P30_B15	8B	RECEIVE_B_IO	
P30_A13	9B	RECEIVE_A_OUT	
P30_B12	10B	TRANSMIT_B_OUT	
P7_17A	11B	VIDEO_GAIN	
P7_18A	12B	HUE	
P30_A7	13B	SYS_SC_CORSE_1	
P30_B6	14B	P_SERIAL_IN	
P30_A4, P22_3	15B	STB_CLK16	
P30_B3	16B	DTR	
P30_A1	17B	CTS	
P19_23B, P20_23B	18B	RF_DATA	
P12_22C	19B	DEC_DAT	
P9_21C	20B	SBC_AV_DAT	
P5_22B, P11_22B, P7_22B	21B	AV_CS_VIDEO_L	
	22B	AV_CS_AUDIO_L	
P17_22B, P18_22B, P15_22B	23B	AV_ADRS8	
	24B	AV_ADRS5	
	25B	AV_ADRS2	
	26B	AV_IORD_L	
COMMON	27B	AV_DATA7	
	28B	AV_DATA4	
	29B	AV_DATA1	
	30B	+5V	
	31B	-5V	
	32B	GND	

P003
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
P29_B4	6C	TC_OUT_H	
P32_2	7C	FAN_PULSE2	
P30_A14	8C	TRANSMIT_A_IO	
P30_B12	9C	RECEIVE_B_OUT	
P5_10B	10C	P1394_B	
P7_17B	11C	SET_UP	
P30_A8	12C	SYS_H_PHASE	
P30_B7	13C	SYS_SC_CORSE_2	
P30_A5	14C	P_SERIAL_OUT	
P5_10C	15C	P1394_C	
P30_A2	16C	RXD	
P30_B1	17C	RTS	
P19_23C	18C	RF_EQLD_H	
P9_21A	19C	AV_SBC_CLK	
P9_22A	20C	AV_SBC_RQ	
P9_22C	21C	AV_CS_RECPB_L	
	22C	AV_ADRS10	
	23C	AV_ADRS7	
	24C	AV_ADRS4	
	25C	AV_ADRS1	
COMMON	26C	AV_IOWR_L	
	27C	AV_DATA6	
	28C	AV_DATA3	
	29C	AV_DATA0	
	30C	+5V	
	31C	-5V	
	32C	GND	

P004
VJS2899A096

	1A	GND	
P9_18C, P13_19C	2A	REC_FRP	
P1_21B	3A	SYS_AB0	
P1_22B	4A	SYS_AB3	
P1_23B	5A	SYS_AB6	
P1_24B	6A	SYS_AB9	
P1_25B	7A	SYS_DB1	
P1_26B	8A	SYS_DB4	
P1_27B	9A	SYS_DB7	
P1_28B	10A	SYS_WR_L	
P1_29B	11A	SERVO_RESET_L	
P2_2B	12A	TAPE_REV_H	
J2 LAND P2_3B	13A	CAP_FG1_SYS	
P2_22A	14A	LOAD_ERR_SYS	
	15A	BACKUP	
P8_14B	16A	CHAR_DATA_H	
P8_15B	17A	V_SYNC_L	
P24_B4	18A	CASSET_INL_H	
P24_A6	19A	CASSET2_H	
P24_B7	20A	CASSET_UP_L	
P24_B8	21A	MECHA_POS1_L	
P24_B9	22A	MECHA_POS3_L	
P24_B10	23A	CAST_DOWN_L	
P24_B11	24A	REEL_POS1_H	
P24_A13	25A	TAPE_START_L	
P24_B13	26A	TAPE_END_L	
P23_7	27A	R_STAND_L2S	
P23_8	28A	R_STAND_S2L	
	29A		
	30A		
	31A	+16V	
	32A	GND	

P004
VJS2899A096

	1B	GND	
P9_19A, P1_11A	2B	FP_S0	
P1_21C	3B	SYS_AB1	
P1_22C	4B	SYS_AB4	
P1_23C	5B	SYS_AB7	
P1_24C	6B	SYS_AB10	
P1_25C	7B	SYS_DB2	
P1_26C	8B	SYS_DB5	
P1_27C	9B	SERVO_CS_L	
P1_28C	10B	SYS_BUSY_L	
P1_29C	11B	SYS_SERVO_INT_L	
P2_2C	12B	FR_PULSE	
P2_3C	13B	S_RL_FG_SYS	
P24_3	14B	CASSET_MID_H	
	15B	BACKUP	
P8_14C	16B	CHAR_GATE_L	
P8_15C	17B	COMP_SYNC_L	
P24_A5	18B	CASSET1_H	
P24_A7	19B	CASSET_DOWN_H	
P24_A8	20B	MECHA_POS2_L	
P24_A9	21B	SAFETY_TAB	
P24_A10	22B	REEL_POS2_H	
P24_A11	23B	TAPE_SENSOR_ON	
P24_A12	24B	F_LOAD_IN	
P24_B12	25B	F_LOAD_OUT	
P24_A14	26B	LOADING	
P24_B14	27B	UNLOADING	
P21_1	28B	FR_SERI0A	
P21_3	29B	FR_SERI1A	
	30B		
	31B	+16V	
	32B	GND	

P004
VJS2899A096

	1C	GND	
P9_19B, P1_11B	2C	FP_S1	
P1_22A	3C	SYS_AB2	
P1_23A	4C	SYS_AB5	
P1_24A	5C	SYS_AB8	
P1_25A	6C	SYS_DB0	
P1_26A	7C	SYS_DB3	
P1_27A	8C	SYS_DB6	
P1_28A	9C	SYS_RD_L	
P1_29A	10C	SERVO_INT_L	
P2_2A	11C	CTL_PULSE	
	12C		
P2_4A	13C	T_RL_FG_SYS	
P8_29A	14C	OUT_FRM	
	15C	BACKUP	
P8_15A	16C	H_SYNC_L	
P24_A4	17C	CASSET_INR_H	
P24_B5	18C	DEW_ON_H	
P24_B6	19C	DEW_GND	
P23_9	20C	PINCH_ON	
P23_10	21C	PINCH_OFF	
P23_11	22C	S_BRAKE_ON	
P23_12	23C	S_BRAKE_OFF	
P23_13	24C	T_BRAKE_ON	
P23_14	25C	T_BRAKE_OFF	
P23_15	26C	M_STOPPER_OFF	
P23_16	27C	M_STOPPER_ON	
P21_2	28C	FR_SERI0B	
P21_4	29C	FR_SERI1B	
	30C		
	31C	+16V	
	32C	GND	

COMPONENT NAME	MOTHER CIRCUIT	02/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(2/11)		SCM2

SIF (F3)

P005
VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
	6A		
	7A		
	8A		
	9A		
P3_21A	10A	P1394_A	
	11A		
	12A		
P11_13A	13A	YC_IN_P0	
P11_14A	14A	YC_IN_N1	
P11_15A	15A	YC_IN_P3	
P11_16A	16A	YC_IN_N4	
P11_17A	17A	YC_IN_P6	
P11_18A	18A	YC_IN_N7	
P11_19A	19A	YC_IN_P9	
P11_20A	20A	YC_IN_27M_N	
	21A		
	22A	SIF_FRM	
P3_23A	23A	AV_ADRS9	
P3_24A	24A	AV_ADRS6	
P3_25A	25A	AV_ADRS3	
P3_26A	26A	AV_ADRS0	
P3_27A	27A	AV_RST_L	
P3_28A	28A	AV_DATA5	
P3_29A	29A	AV_DATA2	
	30A	+5V	
	31A	-5V	
	32A	GND	

P005
VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
	6B		
	7B		
	8B		
	9B		
P3_10C	10B	P1394_B	
	11B		
	12B		
P11_13B	13B	YC_IN_N0	
P11_14B	14B	YC_IN_P2	
P11_15B	15B	YC_IN_N3	
P11_16B	16B	YC_IN_P5	
P11_17B	17B	YC_IN_N6	
P11_18B	18B	YC_IN_P8	
P11_19B	19B	YC_IN_N9	
P11_20B	20B	SIF_CSYNC	
	21B		
P3_21B	22B	AV_CS_VIDEO_L	
P3_23B	23B	AV_ADRS8	
P3_24B	24B	AV_ADRS5	
P3_25B	25B	AV_ADRS2	
P3_26B	26B	AV_IORD_L	
P3_27B	27B	AV_DATA7	
P3_28B	28B	AV_DATA4	
P3_29B	29B	AV_DATA1	
	30B	+5V	
	31B	-5V	
	32B	GND	

P005
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
	6C		
	7C		
	8C		
	9C		
P3_15C	10C	P1394_C	
	11C		
	12C		
P11_13C	13C	YC_IN_P1	
P11_14C	14C	YC_IN_N2	
P11_15C	15C	YC_IN_P4	
P11_16C	16C	YC_IN_N5	
P11_17C	17C	YC_IN_P7	
P11_18C	18C	YC_IN_N8	
P11_19C	19C	YC_IN_27M_P	
	20C		
	21C	EAVSAV	
P3_22C	22C	AV_ADRS10	
P3_23C	23C	AV_ADRS7	
P3_24C	24C	AV_ADRS4	
P3_25C	25C	AV_ADRS1	
P3_26C	26C	AV_IOWR_L	
P3_27C	27C	AV_DATA6	
P3_28C	28C	AV_DATA3	
P3_29C	29C	AV_DATA0	
	30C	+5V	
	31C	-5V	
	32C	GND	

P006
VJS2899A096

	1A	GND	
P8_2A	2A	YC_OUT_P0	
P8_3A	3A	YC_OUT_N1	
P8_4A	4A	YC_OUT_P3	
P8_5A	5A	YC_OUT_N4	
P8_6A	6A	YC_OUT_P6	
P8_7A	7A	YC_OUT_N7	
P8_8A	8A	YC_OUT_P9	
P8_9A	9A	YC_OUT_27M_N	
P14_10A	10A	S_REC_AUD12G	
P14_11A	11A	S_PB_AUD12	
P14_12A	12A	S_PB_AUD34G	
	13A		
	14A		
	15A		
	16A		
	17A		
	18A		
	19A		
	20A		
	21A		
	22A		
	23A		
	24A		
	25A		
	26A		
	27A		
	28A		
	29A		
	30A		
	31A	+16V	
	32A	GND	

P006
VJS2899A096

	1B	GND	
P8_2B	2B	YC_OUT_N0	
P8_3B	3B	YC_OUT_P2	
P8_4B	4B	YC_OUT_N3	
P8_5B	5B	YC_OUT_P5	
P8_6B	6B	YC_OUT_N6	
P8_7B	7B	YC_OUT_P8	
P8_8B	8B	YC_OUT_N9	
	9B		
P14_10B	10B	S_REC_AUD34	
P14_11B	11B	S_PB_AUD12G	
P14_12B	12B	DAUDCK_P	
	13B		
	14B		
	15B		
	16B		
	17B		
	18B		
	19B		
	20B		
	21B		
	22B		
	23B		
	24B		
	25B		
	26B		
	27B		
	28B		
	29B		
	30B		
	31B	+16V	
	32B	GND	

P006
VJS2899A096

	1C	GND	
P8_2C	2C	YC_OUT_P1	
P8_3C	3C	YC_OUT_N2	
P8_4C	4C	YC_OUT_P4	
P8_5C	5C	YC_OUT_N5	
P8_6C	6C	YC_OUT_P7	
P8_7C	7C	YC_OUT_N8	
P8_8C	8C	YC_OUT_27M_P	
P14_9C	9C	S_REC_AUD12	
P14_10C	10C	S_REC_AUD34G	
P14_11C	11C	S_PB_AUD34	
P14_12C	12C	DAUDCK_N	
	13C		
	14C		
	15C		
	16C		
	17C		
	18C		
	19C		
	20C		
	21C		
	22C		
	23C		
	24C		
	25C		
	26C		
	27C		
	28C		
	29C		
	30C		
	31C	+16V	
	32C	GND	

COMPONENT NAME	MOTHER CIRCUIT	03/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(3/11)		SCM3

V_OUT (F4)

P007
VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
P30_B26	6A	REF_IN_G	
	7A		
P30_B24	8A	VIDEO_OUT1_G	
P30_B23	9A	VIDEO_OUT2_G	
P30_B22	10A	VIDEO_OUT3_G	
P30_B21	11A	Y_OUT_G	
P30_B19	12A	PR_OUT_G	
P30_B20	13A	PB_OUT_G	
P29_A/B21	14A	4P_Y_OUT_G	
P29_A/B19	15A	4P_C_OUT_G	
	16A		
P3_11B	17A	VIDEO_GAIN	
P3_12B	18A	HUE	
	19A		
	20A		
	21A		
	22A		
P3_23A	23A	AV_ADRS9	
P3_24A	24A	AV_ADRS6	
P3_25A	25A	AV_ADRS3	
P3_26A	26A	AV_ADRS0	
P3_27A	27A	AV_RST_L	
P3_28A	28A	AV_DATA5	
P3_29A	29A	AV_DATA2	
	30A	+5V	
	31A	-5V	
	32A	GND	

P007
VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
	6B		
	7B		
	8B		
	9B		
	10B		
	11B		
	12B		
	13B		
	14B		
	15B		
	16B		
P3_11C	17B	SET_UP	
	18B		
	19B		
	20B		
	21B		
P3_21B	22B	AV_CS_VIDEO_L	
P3_23B	23B	AV_ADRS8	
P3_24B	24B	AV_ADRS5	
P3_25B	25B	AV_ADRS2	
P3_26B	26B	AV_IORD_L	
P3_27B	27B	AV_DATA7	
P3_28B	28B	AV_DATA4	
P3_29B	29B	AV_DATA1	
	30B	+5V	
	31B	-5V	
	32B	GND	

P007
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
P30_A26	6C	REF_IN	
	7C		
P30_A24	8C	VIDEO_OUT1	
P30_A23	9C	VIDEO_OUT2	
P30_A22	10C	VIDEO_OUT3	
P30_A21	11C	Y_OUT	
P30_A19	12C	PR_OUT	
P30_A20	13C	PB_OUT	
P29_B22	14C	4P_Y_OUT	
P29_B20	15C	4P_C_OUT	
P29_A20	16C	WIDE_OUT_L	
P3_12A	17C	C_GAIN	
	18C		
	19C		
	20C		
	21C		
P3_22C	22C	AV_ADRS10	
P3_23C	23C	AV_ADRS7	
P3_24C	24C	AV_ADRS4	
P3_25C	25C	AV_ADRS1	
P3_26C	26C	AV_IOWR_L	
P3_27C	27C	AV_DATA6	
P3_28C	28C	AV_DATA3	
P3_29C	29C	AV_DATA0	
	30C	+5V	
	31C	-5V	
	32C	GND	

P008
VJS2899A096

	1A	GND	
P6_2A	2A	YC_OUT_P0	
P6_3A	3A	YC_OUT_N1	
P6_4A	4A	YC_OUT_P3	
P6_5A	5A	YC_OUT_N4	
P6_6A	6A	YC_OUT_P6	
P6_7A	7A	YC_OUT_N7	
P6_8A	8A	YC_OUT_P9	
P6_9A	9A	YC_OUT_27M_N	
	10A		
	11A		
	12A		
	13A		
	14A		
P4_16C	15A	H_SYNC_L	
	16A		
	17A		
	18A		
	19A		
	20A		
	21A		
P10_22A	22A	PB_C_DATA2	
P10_23A	23A	PB_C_DATA5	
P10_24A	24A	PB_Y_DATA0	
P10_25A	25A	PB_Y_DATA3	
P10_26A	26A	PB_Y_DATA6	
P10_27A	27A	REF_FRM	
	28A		
P4_14C	29A	OUT_FRM	
	30A		
	31A	+16V	
	32A	GND	

P008
VJS2899A096

	1B	GND	
P6_2B	2B	YC_OUT_N0	
P6_3B	3B	YC_OUT_P2	
P6_4B	4B	YC_OUT_N3	
P6_5B	5B	YC_OUT_P5	
P6_6B	6B	YC_OUT_N6	
P6_7B	7B	YC_OUT_P8	
P6_8B	8B	YC_OUT_N9	
	9B		
	10B	INCOME_FRM	
	11B		
	12B		
P14_13B	13B	REF_FRAME	
P4_16A	14B	CHAR_DATA_H	
P4_17A	15B	V_SYNC_L	
	16B		
	17B		
	18B		
	19B		
	20B		
P10_21B	21B	PB_C_DATA0	
P10_22B	22B	PB_C_DATA3	
P10_23B	23B	PB_C_DATA6	
P10_24B	24B	PB_Y_DATA1	
P10_25B	25B	PB_Y_DATA4	
P10_26B	26B	PB_Y_DATA7	
P10_27B	27B	REF_CF0	
P10_28B	28B	OUT_135M_P	
P10_29B	29B	OUT_V1P	
	30B		
	31B	+16V	
	32B	GND	

P008
VJS2899A096

	1C	GND	
P6_2C	2C	YC_OUT_P1	
P6_3C	3C	YC_OUT_N2	
P6_4C	4C	YC_OUT_P4	
P6_5C	5C	YC_OUT_N5	
P6_6C	6C	YC_OUT_P7	
P6_7C	7C	YC_OUT_N8	
P6_8C	8C	YC_OUT_27M_P	
	9C		
	10C		
	11C		
	12C		
P14_13C	13C	REF_HST_N	
P4_16B	14C	CHAR_GATE_L	
P4_17B	15C	COMP_SYNC_L	
	16C		
	17C		
	18C		
	19C		
	20C		
P10_21C	21C	PB_C_DATA1	
P10_22C	22C	PB_C_DATA4	
P10_23C	23C	PB_C_DATA7	
P10_24C	24C	PB_Y_DATA2	
P10_25C	25C	PB_Y_DATA5	
P10_26C	26C	PB_FRM	
P10_27C	27C	REF_CF1	
P10_28C	28C	OUT_135M_N	
P10_29C	29C	OUT_RDHD	
	30C		
	31C	+16V	
	32C	GND	

COMPONENT NAME	MOTHER CIRCUIT	04/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(4/11)		SCM4

REC/PB (F5)

P009 VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
P20_8A	6A	EE_DATA_P	
P20_9B	7A	EE_CLK_N	
P20_10C	8A	RECI	
P19_11C	9A	PB_DAT_R_P	
P19_12C	10A	PB_CLK_R_N	
P19_13C	11A	PB_CLK_P_P	
	12A		
	13A		
	14A		
P19_17C	15A	EQ_HOLD_H	
P19_18C	16A	REC_F_3	
	17A		
P1_10A, P14_20B	18A	FEND	
P1_11A, P4_2B	19A	FP_S0	
P1_12A	20A	PB_SPEED	
P3_19C	21A	AV_SBC_CLK	
P3_20C	22A	AV_SBC_RQ	
P3_11A	23A	FEND_SYS	
P3_24A	24A	AV_ADRS6	
P3_25A	25A	AV_ADRS3	
P3_26A	26A	AV_ADRS0	
P3_27A	27A	AV_RST_L	
P3_28A	28A	AV_DATA5	
P3_29A	29A	AV_DATA2	
	30A	+5V	
	31A	-5V	
	32A	GND	

P009 VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
P20_8B	6B	EE_DATA_N	
P20_10A	7B	FECTRL0	
P20_11A, P19_11A	8B	RECCTRL_A	
P19_12A	9B	PB_DAT_R_N	
P19_13A	10B	PB_DAT_P_P	
P19_14A	11B	PB_CLK_P_N	
	12B		
	13B		
	14B		
	15B		
P19_19A, P20_19A, P1_17A	16B	PB_HSW	
	17B		
P1_10B	18B	FLUSH	
P1_11B, P4_2C	19B	FP_S1	
P1_12B	20B	REC_SPEED	
P3_20A	21B	AV_SBC_DAT	
P19_19C	22B	PB_FRP	
P19_21C	23B	VS_DATA	
P3_24B	24B	AV_ADRS5	
P3_25B	25B	AV_ADRS2	
P3_26B	26B	AV_IORD_L	
P3_27B	27B	AV_DATA7	
P3_28B	28B	AV_DATA4	
P3_29B	29B	AV_DATA1	
	30B	+5V	
	31B	-5V	
	32B	GND	

P009 VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
P20_9A	6C	EE_CLK_P	
P20_10B	7C	FECTRL1	
P20_11B, P19_11B	8C	RECCTRL_B	
P19_12B	9C	PB_CLK_R_P	
P19_13B	10C	PB_DAT_P_N	
	11C		
	12C		
	13C		
	14C		
	15C		
P1_17B, P19_19B, P20_19B	16C	RP_HSW	
	17C		
P4_2A	18C	REC_FRP	
P1_11C	19C	REC_HEAD_L	
P19_20C	20C	PBH	
P3_20B	21C	SBC_AV_DAT	
P3_21C	22C	AV_CS_RECPB_L	
P3_23C	23C	AV_ADRS7	
P3_24C	24C	AV_ADRS4	
P3_25C	25C	AV_ADRS1	
P3_26C	26C	AV_IOWR_L	
P3_27C	27C	AV_DATA6	
P3_28C	28C	AV_DATA3	
P3_29C	29C	AV_DATA0	
	30C	+5V	
	31C	-5V	
	32C	GND	

P010 VJS2899A096

	1A	GND	
P1_13A	2A	PFP0	
P1_14A	3A	SLOW_H	
P1_15A	4A	TRP0	
P1_16A	5A	TSR	
P14_6A	6A	18M_CK_P	
P12_7A	7A	TBC_RCK_P	
P12_8A	8A	TBC_RHRST	
P12_9A	9A	INCOME_CF1	
P12_10A	10A	REC_C_DATA7	
P12_11A	11A	REC_C_DATA4	
P12_12A	12A	REC_C_DATA1	
P12_13A	13A	REC_Y_DATA6	
P12_14A	14A	REC_Y_DATA3	
P12_15A	15A	REC_Y_DATA0	
P14_16A	16A	FS256_N	
P14_17A	17A	FS64_PB	
P14_18A	18A	REC_FRM	
P14_19A	19A	PB_DATA12	
P14_20A	20A	FRM5	
	21A		
P8_22A	22A	PB_C_DATA2	
P8_23A	23A	PB_C_DATA5	
P8_24A	24A	PB_Y_DATA0	
P8_25A	25A	PB_Y_DATA3	
P8_26A	26A	PB_Y_DATA6	
P8_27A	27A	REF_FRM	
	28A		
P8_29A	29A	OUT_FRM	
P24_B1	30A	CASSET_POS_1	
	31A	+16V	
	32A	GND	

P010 VJS2899A096

	1B	GND	
P1_13B	2B	PFP1	
P1_14B	3B	SPA	
P1_15B	4B	TRP1	
P2_2B, P14_5B	5B	TAPE_REV_H	
P14_6B	6B	18M_CK_N	
P12_7B	7B	TBC_RCK_N	
P12_8B	8B	INCOME_FRM	
	9B		
P12_10B	10B	REC_C_DATA6	
P12_11B	11B	REC_C_DATA3	
P12_12B	12B	REC_C_DATA0	
P12_13B	13B	REC_Y_DATA5	
P12_14B	14B	REC_Y_DATA2	
P14_15B	15B	REC_DATA12	
P14_16B	16B	FS256_P	
	17B		
P14_18B	18B	INH	
P14_19B	19B	PB_DATA34	
	20B		
P8_21B	21B	PB_C_DATA0	
P8_22B	22B	PB_C_DATA3	
P8_23B	23B	PB_C_DATA6	
P8_24B	24B	PB_Y_DATA1	
P8_25B	25B	PB_Y_DATA4	
P8_26B	26B	PB_Y_DATA7	
P8_27B	27B	REF_CF0	
P8_28B	28B	OUT_135M_P	
P8_29B	29B	OUT_VIP	
P24_A2	30B	CASSET_POS_2	
	31B	+16V	
	32B	GND	

P010 VJS2899A096

	1C	GND	
P1_13C	2C	LIN_H	
P1_14C	3C	STILL_H	
P1_15C	4C	TRP2	
P2_2A	5C	CTL_PULSE	
P19_22A	6C	VS_CS	
P12_7C	7C	TBC_RVRST	
P12_8C	8C	INCOME_CF0	
P19_21B	9C	VS_CLK	
P12_10C	10C	REC_C_DATA5	
P12_11C	11C	REC_C_DATA2	
P12_12C	12C	REC_Y_DATA7	
P12_13C	13C	REC_Y_DATA4	
P12_14C	14C	REC_Y_DATA1	
P14_15C	15C	REC_DATA34	
P14_16C	16C	FS	
P14_17C	17C	FS64	
P14_18C	18C	FS_P	
P14_19C	19C	PB_FRM_A	
	20C		
P8_21C	21C	PB_C_DATA1	
P8_22C	22C	PB_C_DATA4	
P8_23C	23C	PB_C_DATA7	
P8_24C	24C	PB_Y_DATA2	
P8_25C	25C	PB_Y_DATA5	
P8_26C	26C	PB_FRM	
P8_27C	27C	REF_CF1	
P8_28C	28C	OUT_135M_N	
P8_29C	29C	OUT_RDHD	
P24_B2	30C	CASSET_POS_3	
	31C	+16V	
	32C	GND	

COMPONENT NAME	MOTHER CIRCUIT	05/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(5/11)		SCM5

VIN (F6)

P011
VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
P30_B30	6A	VIDEO_IN_G	
P30_B29	7A	Y_IN_G	
P30_B28	8A	PB_IN_G	
P30_B27	9A	PR_IN_G	
P29_A/B25	10A	4P_Y_IN_G	
P29_A/B23	11A	4P_C_IN_G	
	12A		
P5_13A	13A	YC_IN_P0	
P5_14A	14A	YC_IN_N1	
P5_15A	15A	YC_IN_P3	
P5_16A	16A	YC_IN_N4	
P5_17A	17A	YC_IN_P6	
P5_18A	18A	YC_IN_N7	
P5_19A	19A	YC_IN_P9	
P5_20A	20A	YC_IN_27M_N	
	21A		
P5_22A	22A	SIF_FRM	
P3_23A	23A	AV_ADRS9	
P3_24A	24A	AV_ADRS6	
P3_25A	25A	AV_ADRS3	
P3_26A	26A	AV_ADRS0	
P3_27A	27A	AV_RST_L	
P3_28A	28A	AV_DATA5	
P3_29A	29A	AV_DATA2	
	30A	+5V	
	31A	-5V	
	32A	GND	

P011
VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
	6B		
	7B		
	8B		
	9B		
	10B		
	11B		
	12B		
P5_13B	13B	YC_IN_N0	
P5_14B	14B	YC_IN_P2	
P5_15B	15B	YC_IN_N3	
P5_16B	16B	YC_IN_P5	
P5_17B	17B	YC_IN_N6	
P5_18B	18B	YC_IN_P8	
P5_19B	19B	YC_IN_N9	
P5_20B	20B	SIF_CSYNC	
	21B		
P3_21B	22B	AV_CS_VIDEO_L	
P3_23B	23B	AV_ADRS8	
P3_24B	24B	AV_ADRS5	
P3_25B	25B	AV_ADRS2	
P3_26B	26B	AV_IORD_L	
P3_27B	27B	AV_DATA7	
P3_28B	28B	AV_DATA4	
P3_29B	29B	AV_DATA1	
	30B	+5V	
	31B	-5V	
	32B	GND	

P011
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
P30_A30	6C	VIDEO_IN	
P30_A29	7C	Y_IN	
P30_A28	8C	PB_IN	
P30_A27	9C	PR_IN	
P29_B26	10C	4P_Y_IN	
P29_B24	11C	4P_C_IN	
P29_A24	12C	WIDE_IN_L	
P5_13C	13C	YC_IN_P1	
P5_14C	14C	YC_IN_N2	
P5_15C	15C	YC_IN_P4	
P5_16C	16C	YC_IN_N5	
P5_17C	17C	YC_IN_P7	
P5_18C	18C	YC_IN_N8	
P5_19C	19C	YC_IN_27M_P	
	20C		
P5_21C	21C	EAVSAV	
P3_22C	22C	AV_ADRS10	
P3_23C	23C	AV_ADRS7	
P3_24C	24C	AV_ADRS4	
P3_25C	25C	AV_ADRS1	
P3_26C	26C	AV_IOWR_L	
P3_27C	27C	AV_DATA6	
P3_28C	28C	AV_DATA3	
P3_29C	29C	AV_DATA0	
	30C	+5V	
	31C	-5V	
	32C	GND	

P012
VJS2899A096

	1A	GND	
	2A		
	3A		
	4A		
	5A		
	6A		
P10_7A	7A	TBC_RCK_P	
P10_8A	8A	TBC_RHRST	
P10_9A	9A	INCOME_CF1	
P10_10A	10A	REC_C_DATA7	
P10_11A	11A	REC_C_DATA4	
P10_12A	12A	REC_C_DATA1	
P10_13A	13A	REC_Y_DATA6	
P10_14A	14A	REC_Y_DATA3	
P10_15A	15A	REC_Y_DATA0	
P14_13A	16A	INCOM_HST_N	
	17A		
	18A		
	19A		
	20A		
	21A		
	22A		
	23A		
	24A		
	25A		
	26A		
	27A		
	28A		
	29A		
	30A		
	31A	+16V	
	32A	GND	

P012
VJS2899A096

	1B	GND	
	2B		
	3B		
	4B		
	5B		
	6B		
P10_7B	7B	TBC_RCK_N	
P10_8B	8B	INCOME_FRM	
	9B		
P10_10B	10B	REC_C_DATA6	
P10_11B	11B	REC_C_DATA3	
P10_12B	12B	REC_C_DATA0	
P10_13B	13B	REC_Y_DATA5	
P10_14B	14B	REC_Y_DATA2	
	15B		
	16B		
	17B		
	18B		
	19B		
	20B		
	21B		
	22B		
	23B		
	24B		
	25B		
	26B		
	27B		
	28B		
	29B		
	30B		
	31B	+16V	
	32B	GND	

P012
VJS2899A096

	1C	GND	
	2C		
	3C		
	4C		
	5C		
	6C		
P10_7C	7C	TBC_RVRST	
P10_8C	8C	INCOME_CF0	
	9C		
P10_10C	10C	REC_C_DATA5	
P10_11C	11C	REC_C_DATA2	
P10_12C	12C	REC_Y_DATA7	
P10_13C	13C	REC_Y_DATA4	
P10_14C	14C	REC_Y_DATA1	
	15C		
	16C		
	17C		
	18C		
	19C		
	20C		
	21C		
P3_19B	22C	DEC_DAT	
	23C		
	24C		
	25C		
	26C		
	27C		
	28C		
	29C		
	30C		
	31C	+16V	
	32C	GND	

COMPONENT NAME	MOTHER CIRCUIT	06/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(6/11)		SCM6

A_PROC (F7)

P013 VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
P31_1	6A	D_IN_DATA12G	
P31_4	7A	D_IN_DATA34G	
	8A		
P31_7	9A	D_OUT_DATA12G	
P31_10	10A	D_OUT_DATA34G	
	11A		
	12A		
	13A		
	14A		
	15A		
P17_17C	16A	ADSD34	
P17_19A	17A	MCK2	
P15_18A	18A	BCK1	
P15_19A	19A	MCK1	
P18_20A	20A	CUE_BCK	
P15_21A	21A	CUE_MIX_DATA	
P19_19C	22A	PB_FRP	
P3_23A	23A	AV_ADRS9	
P3_24A	24A	AV_ADRS6	
P3_25A	25A	AV_ADRS3	
P3_26A	26A	AV_ADRS0	
P3_27A	27A	AV_RST_L	
P3_28A	28A	AV_DATA5	
P3_29A	29A	AV_DATA2	
	30A	+5V	
	31A	-5V	
	32A	GND	

P013 VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
P31_2	6B	D_IN_DATA12N	
P31_5	7B	D_IN_DATA34N	
	8B		
P31_8	9B	D_OUT_DATA12N	
P31_11	10B	D_OUT_DATA34N	
	11B		
	12B		
	13B		
	14B		
	15B		
P17_18A	16B	BCK2	
P17_19B	17B	WCK2	
P15_18B	18B	DASD12	
P15_19B	19B	WCK1	
P18_20B	20B	CUE_MCK	
P18_21B	21B	CUE_WCK	
P3_22A	22B	AV_CS_APROC_L	
P3_23B	23B	AV_ADRS8	
P3_24B	24B	AV_ADRS5	
P3_25B	25B	AV_ADRS2	
P3_26B	26B	AV_IORD_L	
P3_27B	27B	AV_DATA7	
P3_28B	28B	AV_DATA4	
P3_29B	29B	AV_DATA1	
	30B	+5V	
	31B	-5V	
	32B	GND	

P013 VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
P31_3	6C	D_IN_DATA12P	
P31_6	7C	D_IN_DATA34P	
	8C		
P31_9	9C	D_OUT_DATA12P	
P31_12	10C	D_OUT_DATA34P	
	11C		
	12C		
	13C		
	14C		
	15C		
P17_18B	16C	DASD34	
P15_17C	17C	ADSD12	
P15_18C	18C	DASDLR	
P4_2A	19C	REC_FRP	
P15_20C	20C	CUE_MET_DATA	
	21C		
P3_22A	22C	AV_ADRS10	
P3_23C	23C	AV_ADRS7	
P3_24C	24C	AV_ADRS4	
P3_25C	25C	AV_ADRS1	
P3_26C	26C	AV_IOWR_L	
P3_27C	27C	AV_DATA6	
P3_28C	28C	AV_DATA3	
P3_29C	29C	AV_DATA0	
	30C	+5V	
	31C	-5V	
	32C	GND	

P014 VJS2899A096

	1A	GND	
	2A		
	3A		
	4A		
	5A		
P10_6A	6A	18M_CK_P	
	7A		
	8A		
	9A		
P6_10A	10A	S_REC_AUD12G	
P6_11A	11A	S_PB_AUD12	
P6_12A	12A	S_PB_AUD34G	
P12_16A	13A	INCOM_HST_N	
	14A		
	15A		
P10_16A	16A	FS256_N	
P10_17A	17A	FS64_PB	
P10_18A	18A	REC_FRM	
P10_19A	19A	PB_DATA12	
P10_20A	20A	FRM5	
	21A		
	22A		
	23A		
	24A		
	25A		
	26A		
	27A		
	28A		
	29A		
	30A		
	31A	+16V	
	32A	GND	

P014 VJS2899A096

	1B	GND	
	2B		
	3B		
	4B		
P10_5B	5B	TAPE_REV_H	
P10_6B	6B	18M_CK_N	
	7B		
	8B		
	9B		
P6_10B	10B	S_REC_AUD34	
P6_11B	11B	S_PB_AUD12G	
P6_12B	12B	DAUDCK_P	
P8_13B	13B	REF_FRAME	
	14B		
P10_15B	15B	REC_DATA12	
P10_16B	16B	FS256_P	
	17B		
P10_18B	18B	INH	
P10_19B	19B	PB_DATA34	
P9_18A, P1_10A	20B	FEND	
	21B		
	22B		
	23B		
	24B		
	25B		
	26B		
	27B		
	28B		
	29B		
	30B		
	31B	+16V	
	32B	GND	

P014 VJS2899A096

	1C	GND	
	2C		
	3C		
	4C		
	5C		
	6C		
	7C		
	8C		
P6_9C	9C	S_REC_AUD12	
P6_10C	10C	S_REC_AUD34G	
P6_11C	11C	S_PB_AUD34	
P6_12C	12C	DAUDCK_N	
P8_13C	13C	REF_HST_N	
	14C		
P10_15C	15C	REC_DATA34	
P10_16C	16C	FS	
P10_17C	17C	FS64	
P10_18C	18C	FS_P	
P10_19C	19C	PB_FRM_A	
	20C		
	21C		
	22C		
	23C		
	24C		
	25C		
	26C		
	27C		
	28C		
	29C		
	30C		
	31C	+16V	
	32C	GND	

COMPONENT NAME	MOTHER CIRCUIT	07/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(7/11)		SCM7

ADDA_1 (F8)

P015
VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
P29_A18	6A	CH1_IN_C	
	7A	GND	
P29_A16	8A	CH2_IN_C	
	9A	GND	
P29_A14	10A	CH1_OUT_C	
	11A	GND	
P29_A12	12A	CH2_OUT_C	
	13A	GND	
P29_A10	14A	L_MONI_OUT_C	
P29_A8	15A	R_MONI_OUT_C	
	16A	GND	
	17A		
P13_18A	18A	BCK1	
P13_19A	19A	MCK1	
	20A		
P13_21A	21A	CUE_MIX_DATA	
P17_22A, P18_22A	22A	P_ON_MUT_L	
P3_23A	23A	AV_ADRS9	
P3_24A	24A	AV_ADRS6	
P3_25A	25A	AV_ADRS3	
P3_26A	26A	AV_ADRS0	
P3_27A	27A	AV_RST_L	
P3_28A	28A	AV_DATA5	
P3_29A	29A	AV_DATA2	
	30A	+5V	
	31A	-5V	
	32A	GND	

P015
VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
P29_A/B17	6B	CH1_IN_G	
	7B	GND	
P29_A/B15	8B	CH2_IN_G	
	9B	GND	
P29_A/B13	10B	CH1_OUT_G	
	11B	GND	
P29_A/B11	12B	CH2_OUT_G	
	13B	GND	
P29_A/B9	14B	L_MONI_OUT_G	
P29_A/B7	15B	R_MONI_OUT_G	
	16B	GND	
	17B		
P13_18B	18B	DASD12	
P13_19B	19B	WCK1	
	20B		
	21B		
P3_22B	22B	AV_CS_AUDIO_L	
P3_23B	23B	AV_ADRS8	
P3_24B	24B	AV_ADRS5	
P3_25B	25B	AV_ADRS2	
P3_26B	26B	AV_IORD_L	
P3_27B	27B	AV_DATA7	
P3_28B	28B	AV_DATA4	
P3_29B	29B	AV_DATA1	
	30B	+5V	
	31B	-5V	
	32B	GND	

P015
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
B29_B18	6C	CH1_IN_H	
	7C	GND	
B29_B16	8C	CH2_IN_H	
	9C	GND	
B29_B14	10C	CH1_OUT_H	
	11C	GND	
B29_B12	12C	CH2_OUT_H	
	13C	GND	
B29_B10	14C	L_MONI_OUT_H	
B29_B8	15C	R_MONI_OUT_H	
	16C	GND	
P13_17C	17C	ADSD12	
P13_18C	18C	DASDLR	
P24_B34	19C	CYL_FG+	
P13_20C	20C	CUE_MET_DATA	
	21C		
P3_22C	22C	AV_ADRS10	
P3_23C	23C	AV_ADRS7	
P3_24C	24C	AV_ADRS4	
P3_25C	25C	AV_ADRS1	
P3_26C	26C	AV_IOWR_L	
P3_27C	27C	AV_DATA6	
P3_28C	28C	AV_DATA3	
P3_29C	29C	AV_DATA0	
	30C	+5V	
	31C	-5V	
	32C	GND	

P016
VJS2899A096

	1A	GND	
	2A		
	3A		
	4A		
	5A		
	6A		
	7A		
	8A		
	9A		
	10A		
	11A		
	12A		
	13A		
	14A		
	15A		
	16A	GND	
P36_7	17A	CTL_EH_C	
	18A	GND	
P36_5	19A	CUE_EH_C	
	20A	GND	
P36_2	21A	CUE_R/P_HEAD_C	
	22A	GND	
	23A	GND	
P22_9, P34_9, P35_9	24A	CH2_VAR(+)	
	25A	GND	
P22_6, P34_6, P35_6	26A	CH1_VAR(+)	
	27A	GND	
P22_2, P34_2, P35_2	28A	HP_L_G	
P22_1, P34_1, P35_1	29A	HP_L	
	30A		
	31A	+16V	
	32A	GND	

P016
VJS2899A096

	1B	GND	
	2B		
	3B		
	4B		
	5B		
	6B		
	7B		
	8B		
	9B		
	10B		
	11B		
	12B		
	13B		
	14B		
	15B		
	16B	GND	
P36_9	17B	CTL_EH_G	
	18B	GND	
P36_6	19B	CUE_EH_G	
	20B	GND	
P36_3	21B	CUE_R/P_HEAD_G	
	22B	GND	
	23B	GND	
P22_11, P34_11, P35_11	24B	CH2_VAR(G)	
	25B	GND	
P22_8, P34_8, P35_8	26B	CH1_VAR(G)	
	27B	GND	
P22_5, P34_5, P35_5	28B	HP_MUTE_H	
P22_3, P34_3, P34_3	29B	HP_R	
	30B		
	31B	+16V	
	32B	GND	

P016
VJS2899A096

	1C	GND	
	2C		
	3C		
	4C		
	5C		
	6C		
	7C		
	8C		
	9C		
	10C		
	11C		
	12C		
	13C		
	14C		
	15C		
	16C	GND	
P36_8	17C	CTL_EH_H	
	18C	GND	
P36_4	19C	CUE_EH_H	
	20C	GND	
P36_1	21C	CUE_R/P_HEAD_H	
	22C	GND	
	23C	GND	
P22_10, P34_10, P35_10	24C	CH2_VAR(-)	
	25C	GND	
P22_7, P34_7, P35_7	26C	CH1_VAR(-)	
	27C	GND	
	28C		
P22_4, P34_4, P35_4	29C	HP_R_G	
	30C		
	31C	+16V	
	32C	GND	

COMPONENT NAME	MOTHER CIRCUIT	08/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(8/11)		SCM8

ADDA_2 (H1)

P017
VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
	6A		
	7A	GND	
	8A		
	9A	GND	
	10A		
	11A	GND	
	12A		
	13A	GND	
	14A		
	15A		
	16A		
	17A		
P13_16B	18A	BCK2	
P13_17A	19A	MCK2	
	20A		
	21A		
P18_22A, P15_22A	22A	P_ON_MUT_L	
P3_23A	23A	AV_ADRS9	
P3_24A	24A	AV_ADRS6	
P3_25A	25A	AV_ADRS3	
P3_26A	26A	AV_ADRS0	
P3_27A	27A	AV_RST_L	
P3_28A	28A	AV_DATA5	
P3_29A	29A	AV_DATA2	
	30A	+5V	
	31A	-5V	
	32A	GND	

P017
VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
	6B		
	7B	GND	
	8B		
	9B	GND	
	10B		
	11B	GND	
	12B		
	13B	GND	
	14B		
	15B		
	16B		
	17B		
P13_16C	18B	DASD34	
P13_17B	19B	WCK2	
	20B		
	21B		
P3_22B	22B	AV_CS_AUDIO_L	
P3_23B	23B	AV_ADRS8	
P3_24B	24B	AV_ADRS5	
P3_25B	25B	AV_ADRS2	
P3_26B	26B	AV_IORD_L	
P3_27B	27B	AV_DATA7	
P3_28B	28B	AV_DATA4	
P3_29B	29B	AV_DATA1	
	30B	+5V	
	31B	-5V	
	32B	GND	

P017
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
	6C		
	7C	GND	
	8C		
	9C	GND	
	10C		
	11C	GND	
	12C		
	13C	GND	
	14C		
	15C		
	16C		
P13_16A	17C	ADSD34	
	18C		
	19C		
	20C		
	21C		
P3_22C	22C	AV_ADRS10	
P3_23C	23C	AV_ADRS7	
P3_24C	24C	AV_ADRS4	
P3_25C	25C	AV_ADRS1	
P3_26C	26C	AV_IOWR_L	
P3_27C	27C	AV_DATA6	
P3_28C	28C	AV_DATA3	
P3_29C	29C	AV_DATA0	
	30C	+5V	
	31C	-5V	
	32C	GND	

CUE (H2)

P018
VJS2899A096

	1A	GND	
	2A	+12V	
	3A	-12V	
	4A	+7.5V	
	5A	-7.5V	
P29_A30	6A	CUE_IN_C	
	7A	GND	
P29_A28	8A	CUE_OUT_C	
	9A	GND	
	10A		
	11A		
	12A		
	13A		
	14A		
	15A		
	16A		
	17A		
	18A		
	19A		
P13_20A	20A	CUE_BCK	
P13_21A	21A	CUE_MIX_DATA	
P15/17_22A	22A	P_ON_MUT_L	
P15/17_23A	23A	AV_ADRS9	
P15/17_24A	24A	AV_ADRS6	
P15/17_25A	25A	AV_ADRS3	
P15/17_26A	26A	AV_ADRS0	
P15/17_27A	27A	AV_RST_L	
P15/17_28A	28A	AV_DATA5	
P15/17_29A	29A	AV_DATA2	
	30A	+5V	
	31A	-5V	
	32A	GND	

P018
VJS2899A096

	1B	GND	
	2B	+12V	
	3B	-12V	
	4B	+7.5V	
	5B	-7.5V	
P29_A/B29	6B	CUE_IN_G	
	7B	GND	
P29_A/B27	8B	CUE_OUT_G	
	9B	GND	
	10B		
	11B		
	12B		
	13B		
	14B		
	15B		
	16B		
	17B		
	18B		
	19B		
P13_20B	20B	CUE_MCK	
P13_21B	21B	CUE_WCK	
P15/17_22B	22B	AV_CS_AUDIO_L	
P15/17_23B	23B	AV_ADRS8	
P15/17_24B	24B	AV_ADRS5	
P15/17_25B	25B	AV_ADRS2	
P15/17_26B	26B	AV_IORD_L	
P15/17_27B	27B	AV_DATA7	
P15/17_28B	28B	AV_DATA4	
P15/17_29B	29B	AV_DATA1	
	30B	+5V	
	31B	-5V	
	32B	GND	

P018
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
P29_B30	6C	CUE_IN_H	
	7C	GND	
P29_B28	8C	CUE_OUT_H	
	9C	GND	
	10C		
	11C		
	12C		
	13C		
	14C		
	15C		
	16C		
	17C		
P24_B34	18C	CYL_FG+	
	19C		
P13_20C	20C	CUE_MET_DATA	
	21C		
P5/17_22C	22C	AV_ADRS10	
P5/17_23C	23C	AV_ADRS7	
P5/17_24C	24C	AV_ADRS4	
P5/17_25C	25C	AV_ADRS1	
P5/17_26C	26C	AV_IOWR_L	
P5/17_27C	27C	AV_DATA6	
P5/17_28C	28C	AV_DATA3	
P5/17_29C	29C	AV_DATA0	
	30C	+5V	
	31C	-5V	
	32C	GND	

COMPONENT NAME	MOTHER CIRCUIT	09/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(9/11)		SCM9

EQ (H3)

P019
VJS2899A096

	1A	GND		
	2A	+12V		
	3A	-12V		
	4A	+7.5V		
	5A	-7.5V		
	6A	GND		
P1_6B	7A	RTV_SPD_PB	P1_6C	7B RTV_SPD_RP
P1_7B	8A	REF_CLK		8B GND
P1_8A	9A	ATF_P	P1_8B	9B ATF_R
	10A	GND		10B GND
P9_8B, P20_11A	11A	RECCTRL_A	P9_8C, P20_11B	11B RECCTRL_B
P9_9B	12A	PB_DAT_R_N	P9_9C	12B PB_CLK_R_P
P9_10B	13A	PB_DAT_P_P	P9_10C	13B PB_DAT_P_N
P9_11B	14A	PB_CLK_P_N		14B
	15A			15B
	16A			16B
	17A			17B
	18A			18B
P9_16C, P20_19A, P1_17B	19A	RP_HSW	P9_16B, P20_19B, P1_17A	19B PB_HSW
P1_16C	20A	REC_ENV	P1_16B	20B PB_ENV
	21A		P10_9C	21B VS_CLK
P10_6C	22A	VS_CS		22B
P3_18A, P20_23A	23A	RF_CLK	P3_18B, P20_23B	23B RF_DATA
	24A			24B
	25A	GND		25B GND
P20_26A	26A	PB_OUT_P	P20_26B	26B PB_OUT_N
	27A	GND		27B GND
P20_28A	28A	RP_OUT_P	P20_28B	28B RP_OUT_N
	29A	GND		29B GND
	30A	+5V		30B +5V
	31A	-5V		31B -5V
	32A	GND		32B GND

P019
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
	6C	GND	
	7C	GND	
	8C	GND	
	9C	GND	
	10C	GND	
P9_9A	11C	PB_DAT_R_P	
P9_10A	12C	PB_CLK_R_N	
P9_11A	13C	PB_CLK_P_P	
	14C		
	15C		
	16C		
P9_15A	17C	EQ_HOLD_H	
P9_16A	18C	REC_F_3	
P13_22A	19C	PB_FRP	
P9_20C, P20_20C	20C	PBH	
P9_23B	21C	VS_DATA	
	22C		
P3_18C, P20_23C	23C	RF_EQLD_H	
	24C		
	25C	GND	
P20_26C	26C	PB_OUT_G	
	27C	GND	
P20_28C	28C	RP_OUT_G	
	29C	GND	
	30C	+5V	
	31C	-5V	
	32C	GND	

RF_AMP (H4)

P020
VJS2899A096

	1A	GND		
	2A	+12V		
	3A	-12V		
	4A	+7.5V		
	5A	-7.5V		
	6A	GND		
	7A		P33_A7	7B RE_A_CURR
P9_6A	8A	EE_DATA_P	P9_6B	8B EE_DATA_N
P9_6C	9A	EE_CLK_P	P9_7A	9B EE_CLK_N
P9_7B	10A	FECTRL0	P9_7C	10B FECTRL1
P9_8B	11A	RECCTRL_A	P9_8C	11B RECCTRL_B
P33_A9	12A	A_REC	P33_B9	12B B_REC
	13A	GND	P33_A11	13B RESET
	14A	GND	P33_A13	14B RECDATA_P
	15A	GND	P33_A17	15B REC_A_CURR
	16A	GND	P33_A18	16B REC_A_FREQ
	17A		P33_A20	17B RP_A
	18A		P33_A21	18B PB_A
P9_16C, P19_19A, P1_17B	19A	RP_HSW	P9_16B, P19_19B, P1_17A	19B PB_HSW
P1_16C	20A	REC_ENV		20B PB_ENV
	21A	GND		21B GND
	22A	GND		22B GND
P3_18A, P19_23A	23A	RF_CLK	P3_18B, P19_23B	23B RF_DATA
P3_19A	24A	RF_HALD_H		24B GND
P33_A26	25A	PB_PRE_G	P33_A25	25B PB_PRE_P
P19_26A	26A	PB_OUT_P	P19_26B	26B PB_OUT_N
P33_A24	27A	RP_PRE_G	P33_A23	27B RP_PRE_P
P19_28A	28A	RP_OUT_P		28B RP_OUT_N
	29A	GND		29B GND
	30A	+5V		30B +5V
	31A	-5V		31B -5V
	32A	GND		32B GND

P020
VJS2899A096

	1C	GND	
	2C	+12V	
	3C	-12V	
	4C	+7.5V	
	5C	-7.5V	
	6C	GND	
P33_B7	7C	RE_B_CURR	
	8C	GND	
	9C	GND	
P9_8A	10C	RECI	
	11C		
P33_A10	12C	RECA	
P33_B11	13C	REC_TESTMOD	
P33_B13	14C	RECDATA_N	
P33_B17	15C	REC_B_CURR	
P33_B18	16C	REC_B_FREQ	
P33_B20	17C	RP_B	
P33_B21	18C	PB_B	
P1_17C	19C	RE_HSW	
P9_20C, P19_20C	20C	PBH	
	21C	GND	
	22C	GND	
	23C	GND	
	24C	GND	
B33_B25	25C	PB_PRE_N	
P19_26C	26C	PB_OUT_G	
P33_B23	27C	RP_PRE_N	
P19_28C	28C	RP_OUT_G	
	29C	GND	
	30C	+5V	
	31C	-5V	
	32C	GND	

HEAD_BUFFER

P033 VJP3375A060

A	NO	B	
GND	1	GND	
GND	2	GND	
+12V	3	+12V	
+7.5V	4	+7.5V	
-7.5V	5	-7.5V	
GND	6	GND	
P20_7B RE_A_CURR	7	RE_B_CURR	P20_7C
P20_10A FECTRL0	8	FECTRL1	P20_10B
P20_12A A_REC	9	B_REC	P20_12B
P20_12C RECA	10		
P20_13B RESET	11	REC_TESTMOD	P20_13C
GND	12	GND	
P20_14B RECDATA_P	13	RECDATA_N	P20_14C
GND	14	GND	
GND	15	GND	
GND	16	GND	
P20_15B REC_A_CURR	17	REC_B_CURR	P20_15C
P20_16B REC_A_FREQ	18	REC_B_FREQ	P20_16C
GND	19	GND	
P20_17B RP_A	20	RP_B	P20_17C
P20_18B PB_A	21	PB_B	P20_18C
GND	22	GND	
P20_27B RP_PRE_P	23	RP_PRE_N	P20_27C
P20_27A RP_PRE_G	24	RP_PRE_G	
P20_25B PB_PRE_P	25	PB_PRE_N	P20_25C
P20_25A PB_PRE_G	26	PB_PRE_G	
J7 LAND +5V	27	+5V	
-5V	28	-5V	
GND	29	GND	
GND	30	GND	

COMPONENT NAME	MOTHER CIRCUIT	10/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(10/11)		SCM10

TO V/S_JACK

P030 VJS3375B060

	A	NO	B	
P3_17B	CTS	1	RTS	P3_17C
P3_16C	RXD	2	TXD	P3_17A
P3_16A	DSR	3	DTR	P3_16B
P3_15B	STB_CLK16	4		
P3_14C	P_SERIAL_OUT	5	SERIAL_CLK	P3_15A
P3_14A	RET_GND	6	P_SERIAL_IN	P3_14B
P3_13B	SYS_SC_CORSE_1	7	SYS_SC_CORSE_2	P3_13C
P3_12C	SYS_H_PHASE	8	SYS_SC_PHASE	P3_13A
P3_12A	C_GAIN	9	HUE	P3_12B
P3_11B	VIDEO_GAIN	10	SET_UP	P3_11C
	+5V	11	GND	
P3_10A	TRANSMIT_A_OUT	12	TRANSMIT_B_OUT	P3_10B
P3_9B	RECEIVE_A_OUT	13	RECEIVE_B_OUT	P3_9C
P3_8C	TRANSMIT_A_IO	14	TRANSMIT_B_IO	P3_9A
P3_8A	RECEIVE_A_IO	15	RECEIVE_B_IO	P3_8B
	+5V	16	GND	
	-12V	17	-12V	
	+12V	18	+12V	
P7_12C	PR_OUT	19	PR_OUT_G	P7_12A
P7_13C	PB_OUT	20	PB_OUT_G	P7_13A
P7_11C	Y_OUT	21	Y_OUT_G	P7_11A
P7_10C	VIDEO_OUT3	22	VIDEO_OUT3_G	P7_10A
P7_9C	VIDEO_OUT2	23	VIDEO_OUT2_G	P7_9A
P7_8C	VIDEO_OUT1	24	VIDEO_OUT1_G	P7_8A
	GND	25	GND	
P7_6C	REF_IN	26	REF_IN_G	P7_6A
P11_9C	PR_IN	27	PR_IN_G	P11_9A
P11_8C	PB_IN	28	PB_IN_G	P11_8A
P11_7C	Y_IN	29	Y_IN_G	P11_7A
P11_6C	VIDEO_IN	30	VIDEO_IN_G	P11_6A

TO A_JACK

P029 VJS3375B060

	A	NO	B	
	+12V	1	+12V	
	-12V	2	-12V	
	GND	3	GND	
P3_7A	TC_OUT_C	4	TC_OUT_H	P3_6C
	GND	5	GND	
P3_6B	TC_IN_C	6	TC_IN_H	P3_6A
P15_15B	R_MONI_OUT_G	7	R_MONI_OUT_G	
P15_15A	R_MONI_OUT_C	8	R_MONI_OUT_H	P15_15C
P15_14B	L_MONI_OUT_G	9	L_MONI_OUT_G	
P15_14A	L_MONI_OUT_C	10	L_MONI_OUT_H	P15_14C
P15_12B	CH2_OUT_G	11	CH2_OUT_G	
P15_12A	CH2_OUT_C	12	CH2_OUT_H	P15_12C
P15_10B	CH1_OUT_G	13	CH1_OUT_G	
P15_10A	CH1_OUT_C	14	CH1_OUT_H	P15_10C
P15_8B	CH2_IN_G	15	CH2_IN_G	
P15_8A	CH2_IN_C	16	CH2_IN_H	P15_8C
P15_6B	CH1_IN_G	17	CH1_IN_G	
P15_6A	CH1_IN_C	18	CH1_IN_H	P15_6C
	4P_C_OUT_G	19	4P_C_OUT_G	P7_15A
P13_14A	WIDE_OUT_L	20	4P_C_OUT	P7_15C
	4P_Y_OUT_G	21	4P_Y_OUT_G	P7_14A
		22	4P_Y_OUT	P7_14C
	4P_C_IN_G	23	4P_C_IN_G	P11_11A
P11_12C	WIDE_IN_L	24	4P_C_IN	P11_11C
	4P_Y_IN_G	25	4P_Y_IN_G	P11_10A
		26	4P_Y_IN	P11_10C
	CUE_OUT_G	27	CUE_OUT_G	P18_8B
P18_8A	CUE_OUT_C	28	CUE_OUT_H	P18_8C
	CUE_IN_G	29	CUE_IN_G	P18_6B
P18_6A	CUE_IN_C	30	CUE_IN_H	P18_6C

TO M_IF

P023 VJP2891A030

	1	GND	
	2	GND	
	3	GND	
	4	+12V	
	5	-12V	
	6	+5V	
P4_27A	7	R_STAND_L2S	
P4_28A	8	R_STAND_S2L	
P4_20C	9	PINCH_ON	
P4_21C	10	PINCH_OFF	
P4_22C	11	S_BRAKE_ON	
P4_23C	12	S_BRAKE_OFF	
P4_24C	13	T_BRAKE_ON	
P4_25C	14	T_BRAKE_OFF	
P4_26C	15	M_STOPPER_OFF	
P4_27C	16	M_STOPPER_ON	
P2_23C	17	TRM1	
P2_24C	18	TRM2	
P2_23B	19	TRM3	
P2_25C	20	SRM1	
P2_26C	21	SRM2	
P2_25B	22	SRM3	
P2_27C	23	CAM1	
P2_28C	24	CAM2	
P2_27B	25	CAM3	
P2_29C	26	CYL_M1	
P2_30C	27	CYL_M2	
P2_29B	28	CYL_M3	
P1_18A	29	LOAD_FG	
P2_6B	30	CLE_ON_H	

TO M_IF

P024 VJP3418A080

	A	NO	B	
P2_6C	CHECK_LINE_2	1	CASSET_POS_1	P10_30A
P10_30B	CASSET_POS_2	2	CASSET_POS_3	P10_30C
P4_14B	CASSET_MID_H	3	GND	
P4_17C	CASSET_INR_H	4	CASSET_INL_H	P4_18A
P4_18B	CASSET1_H	5	DEW_ON_H	P4_18C
P4_19A	CASSET2_H	6	DEW_GND	P4_19C
P4_19B	CASSET_DOWN_H	7	CASSET_UP_L	P4_20A
P4_20B	MECHA_POS2_L	8	MECHA_POS1_L	P4_21A
P4_21B	SAFETY_TAB	9	MECHA_POS3_L	P4_22A
P4_22B	REEL_POS2_H	10	CAST_DOWN_L	P4_23A
P4_23B	TAPE_SENSOR_ON	11	REEL_POS1_H	P4_24A
P4_24B	F_LOAD_IN	12	F_LOAD_OUT	P4_25B
P4_25A	TAPE_START_L	13	TAPE_END_L	P4_26A
P4_26B	LOADING	14	UNLOADING	P4_27B
P2_7A	TENSION	15	TENS_GND	P2_7B
P2_7C	CYLH_V+	16	CYLH_V-	P2_8A
P2_4C	CYLH1+	17	CYLH1-	P2_4B
P2_5B	CYLH2+	18	CYLH2-	P2_5A
P2_6A	CYLH3+	19	CYLH3-	P2_5C
P2_9B	TRH_V+	20	TRH_V-	P2_9C
P2_10A	TRH1+	21	TRH1-	P2_10B
P2_10C	TRH2+	22	TRH2-	P2_11A
P2_11B	TRH3+	23	TRH3-	P2_11C
P2_12A	SRH_V+	24	SRH_V-	P2_12B
P2_12C	SRH1+	25	SRH1-	P2_13A
P2_13B	SRH2+	26	SRH2-	P2_13C
P2_14A	SRH3+	27	SRH3-	P2_14B
P2_14C	CAH_V+	28	CAH_V-	P2_15A
P2_15B	CAH1+	29	CAH1-	P2_15C
P2_16A	CAH2+	30	CAH2-	P2_16B
P2_16C	CAH3+	31	CAH3-	P2_17A
P2_17B	CAP_FG_VCC	32	CAP_FG_GND	P2_17C
P2_18A	CAP_FG1_M	33	CAP_FG2_M	P2_18B
P2_18C	CYL_PG+	34	CYL_FG+	P2_19A
P2_19B	T_FG_V	35	T_FG_GND	P2_19C
P2_20A	T_FG1_M	36	T_FG2_M	P2_20B
P2_20C	S_FG_V	37	S_FG_GND	P2_21A
P2_21B	S_FG1_M	38	S_FG2_M	P2_21C
P2_22B	CYL_PF_GND	39	CTL_GND	P2_8C
P2_8B	CTL_REC_CURR	40	CTL_PRE	P2_9A

TO POWER

P027 VJP2824B008

1	-7.5V	
2	+7.5V	
3	-12V	
4	+12V	
5	GND	
6	GND	
7	GND	
8	GND	

P026 VJP2824B006

1	GND	
2	GND	
3	GND	
4	-5V	
5	+5V	
6	+5V	

P025 VJP2824B003

P3_7B	1	FAN_PULSE1
J8 LAND	2	GND_M
	3	+16V

TO FAN_MOTOR

P032 VJP1230T

	1	+12V
P3_7C	2	FAN_PULSE2
	3	GND

TO FRONT

P021 IL-S_AN

P4_28B	1	FR_SERI0A
P4_28C	2	FR_SERI0B
P4_29B	3	FR_SERI1A
P4_29C	4	FR_SERI1B
J3 LAND	5	+5V
J4 LAND	6	+5V
	7	+5V
	8	+5V
J5 LAND	9	GND
	10	GND
	11	GND
	12	GND
	13	GND
	14	-12V
	15	+12V

TO FRONT

P022 IL-S_AN

P16_29A, P34_1, P35_1	1	HP_L
P16_28A, P34_2, P35_2	2	HP_L_G
P16_29B, P34_3, P35_3	3	HP_R
P16_29C, P34_4, P35_4	4	HP_R_G
P16_28B, P34_5, P35_5	5	HP_MUTE_H
P16_26A, P34_6, P35_6	6	CH1_VAR(+)
P16_26C, P34_7, P35_7	7	CH1_VAR(-)
P16_26B, P34_8, P35_8	8	CH1_VAR(G)
P16_24A, P34_9, P35_9	9	CH2_VAR(+)
P16_24C, P34_10, P35_10	10	CH2_VAR(-)
P16_24B, P34_11, P35_11	11	CH2_VAR(G)

P034 IL-S_ST

P16_29A, P22_1, P35_1	1	HP_L
P16_28A, P22_2, P35_2	2	HP_L_G
P16_29B, P22_3, P35_3	3	HP_R
P16_29C, P22_4, P35_4	4	HP_R_G
P16_28B, P22_5, P35_5	5	HP_MUTE_H
P16_26A, P22_6, P35_6	6	CH1_VAR(+)
P16_26C, P22_7, P35_7	7	CH1_VAR(-)
P16_26B, P22_8, P35_8	8	CH1_VAR(G)
P16_24A, P22_9, P35_9	9	CH2_VAR(+)
P16_24C, P22_10, P35_10	10	CH2_VAR(-)
P16_24B, P22_11, P35_11	11	CH2_VAR(G)

P035 IL-S_ST

P16_29A, P22_1, P34_1	1	HP_L
P16_28A, P22_2, P34_2	2	HP_L_G
P16_29B, P22_3, P34_3	3	HP_R
P16_29C, P22_4, P34_4	4	HP_R_G
P16_28B, P22_5, P34_5	5	HP_MUTE_H
P16_26A, P22_6, P34_6	6	CH1_VAR(+)
P16_26C, P22_7, P34_7	7	CH1_VAR(-)
P16_26B, P22_8, P34_8	8	CH1_VAR(G)
P16_24A, P22_9, P34_9	9	CH2_VAR(+)
P16_24C, P22_10, P34_10	10	CH2_VAR(-)
P16_24B, P22_11, P34_11	11	CH2_VAR(G)

TO AES/EBU

P031 VJP1239T

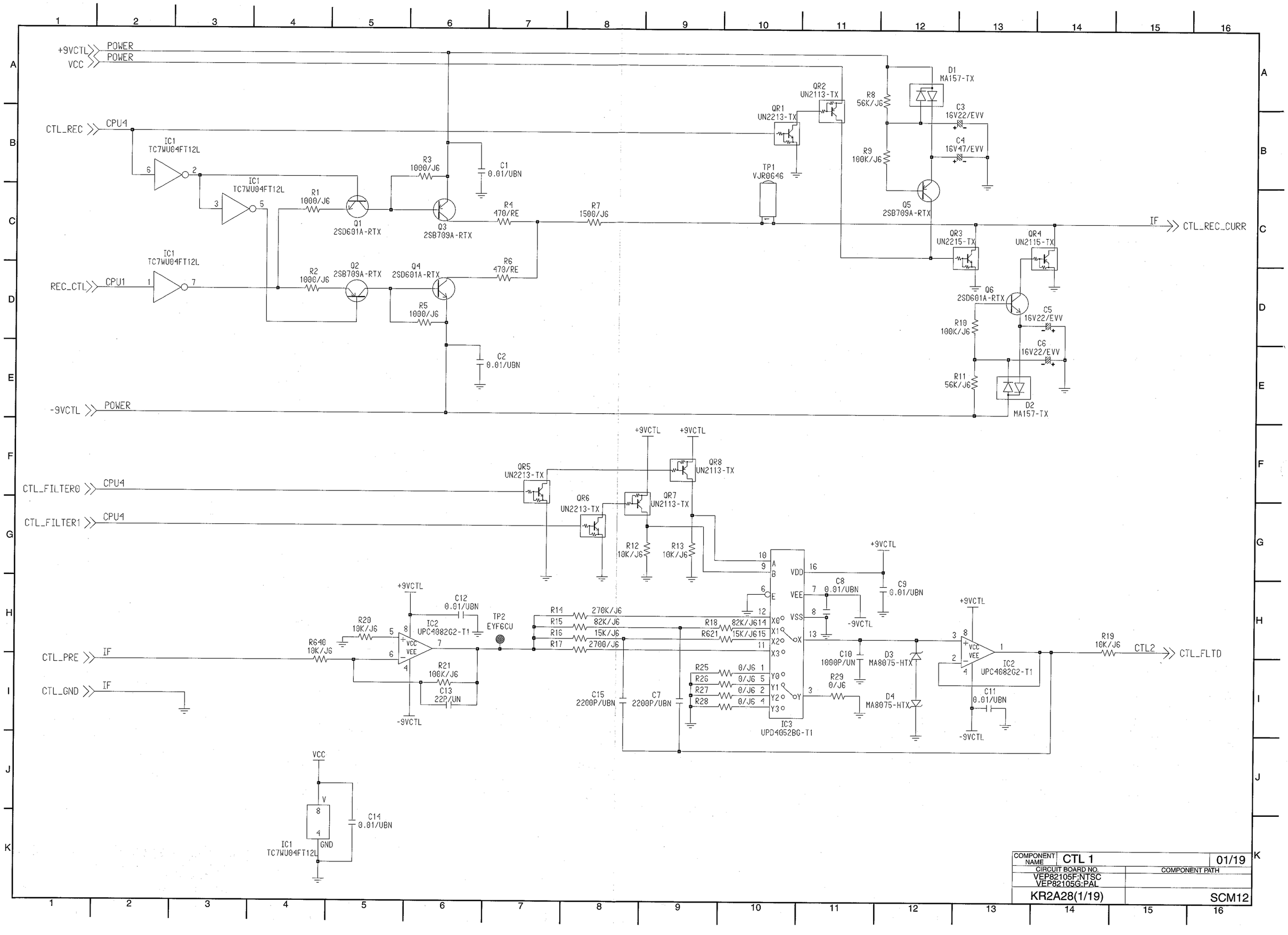
P13_6A	1	D_IN_DATA12G
P13_6B	2	D_IN_DATA12N
P13_6C	3	D_IN_DATA12P
P13_7A	4	D_IN_DATA34G
P13_7B	5	D_IN_DATA34N
P13_7C	6	D_IN_DATA34P
P13_9A	7	D_OUT_DATA12G
P13_9B	8	D_OUT_DATA12N
P13_9C	9	D_OUT_DATA12P
P13_10A	10	D_OUT_DATA34G
P13_10B	11	D_OUT_DATA34N
P13_10C	12	D_OUT_DATA34P

TO AC_HEAD_I/F

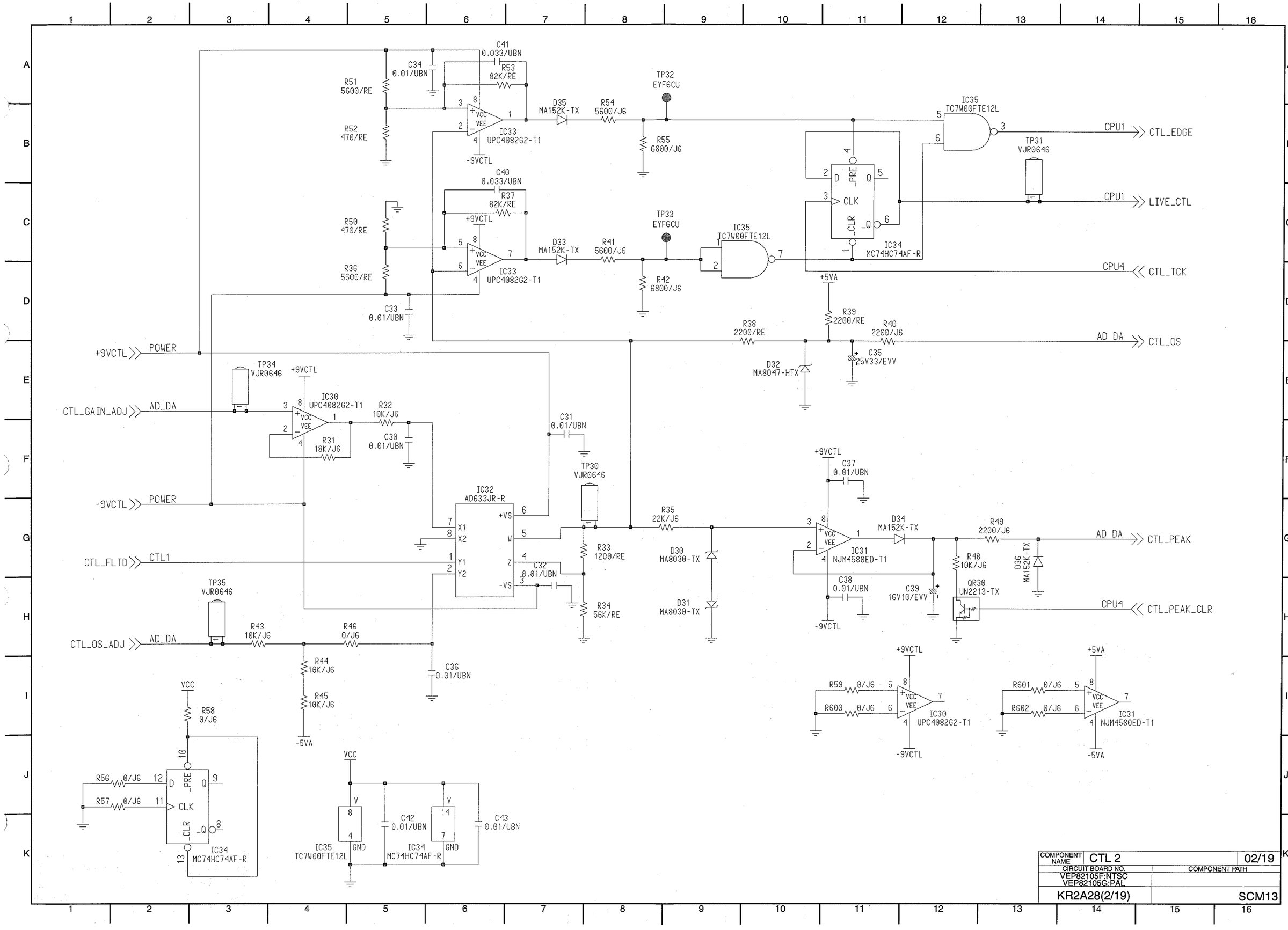
P036 IL-S_AN

P16_21C	1	CUE_R/P_HEAD_H
P16_21A	2	CUE_R/P_HEAD_C
P16_21B	3	CUE_R/P_HEAD_G
P16_19C	4	CUE_EH_H
P16_19A	5	CUE_EH_C
P16_19B	6	CUE_EH_G
P16_17A	7	CTL_EH_C
P16_17C	8	CTL_EH_H
P16_17B	9	CTL_EH_G
	10	

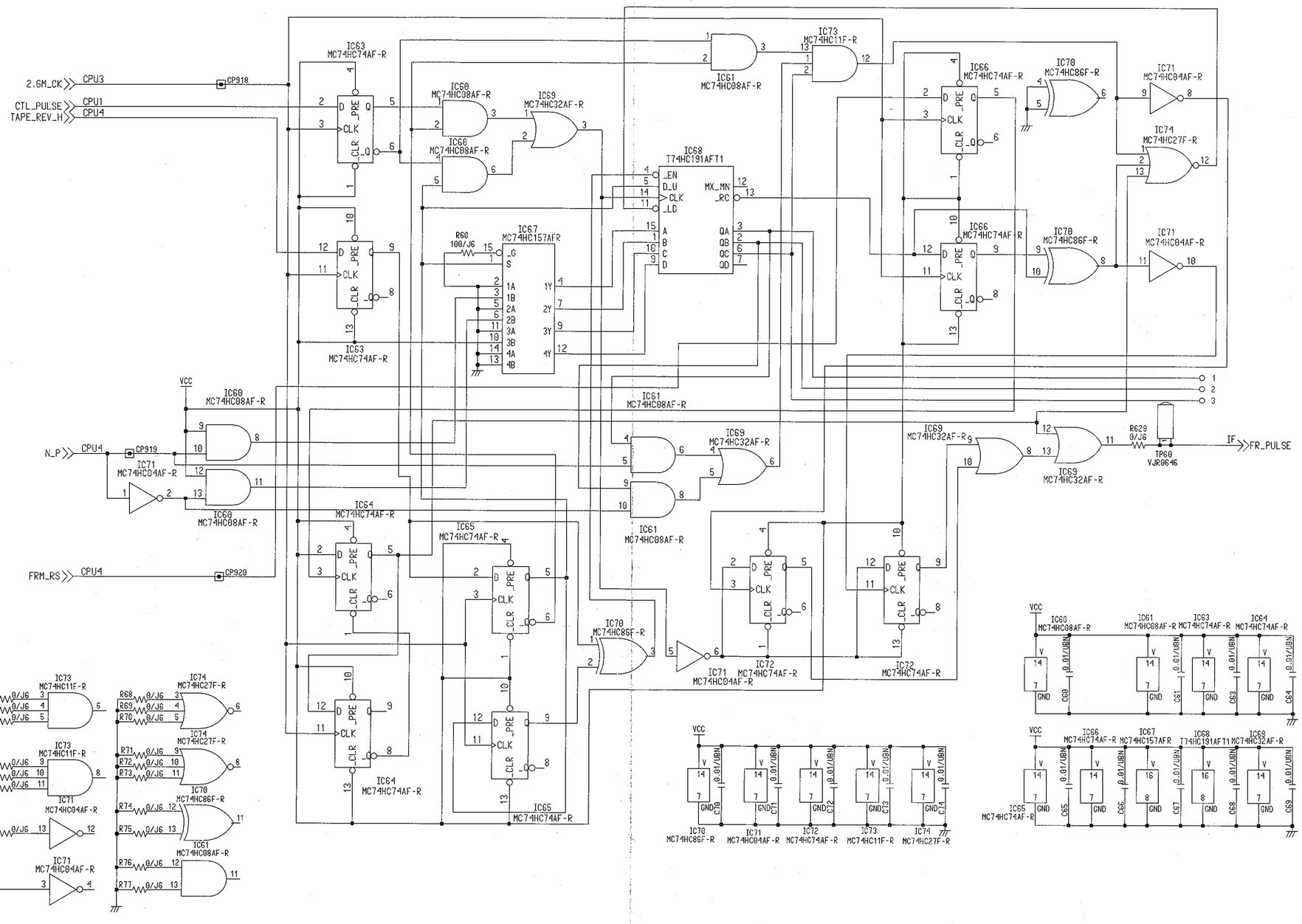
COMPONENT NAME	MOTHER CIRCUIT	11/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(11/11)		SCM11



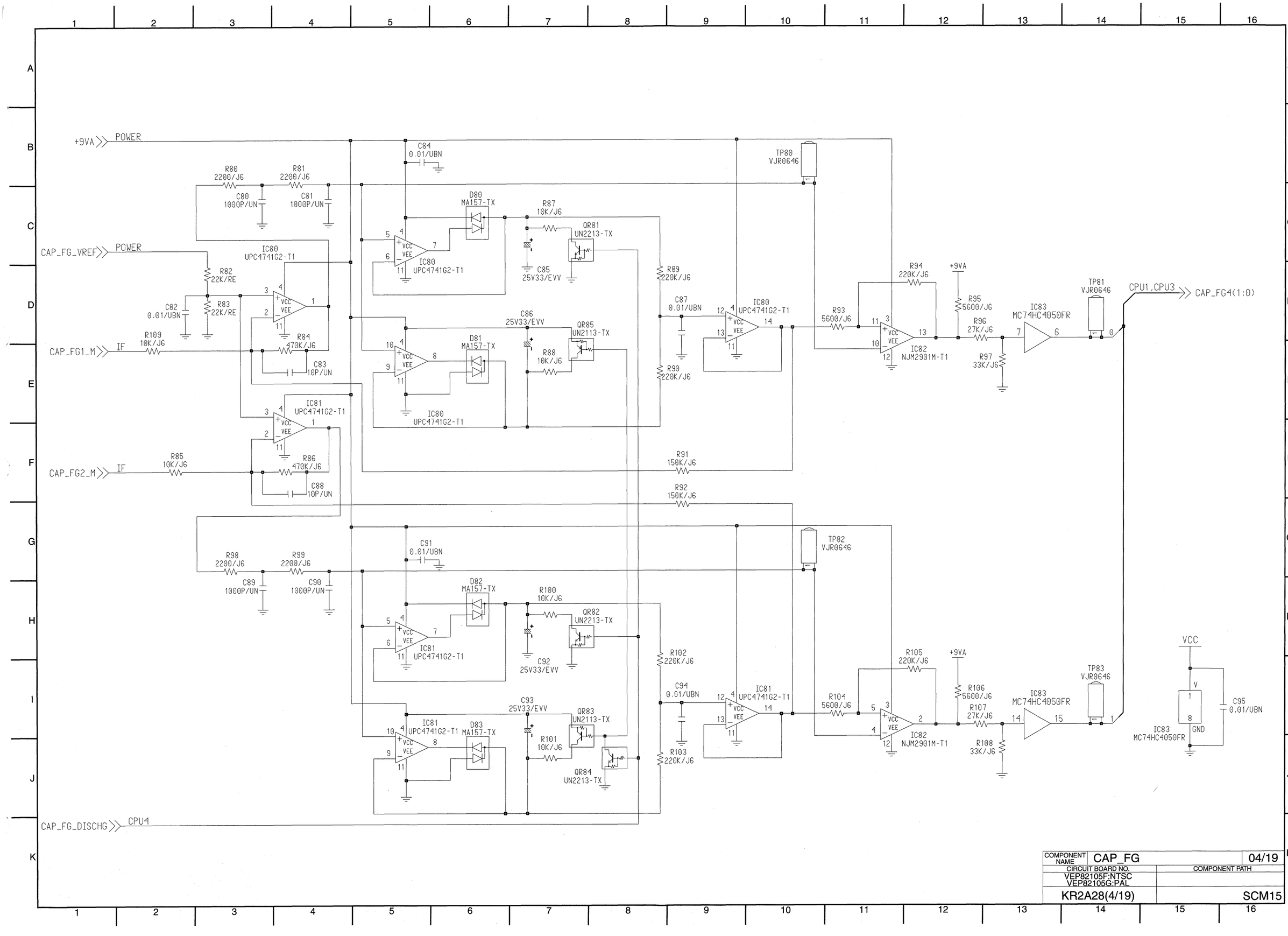
COMPONENT NAME	CTL 1
	01/19
CIRCUIT BOARD NO.	COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL	
KR2A28(1/19)	SCM12



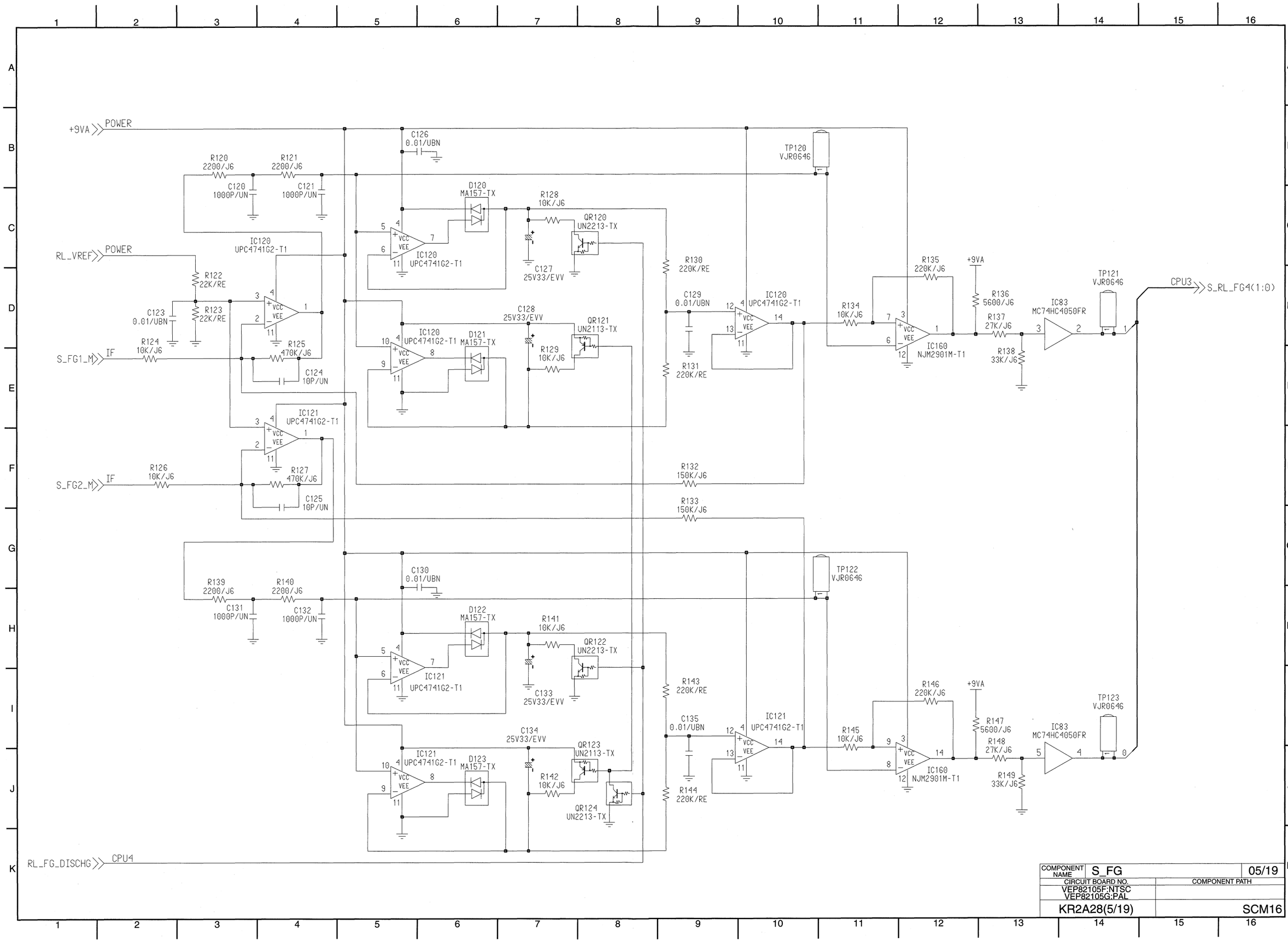
COMPONENT NAME	CTL 2	02/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(2/19)		SCM13



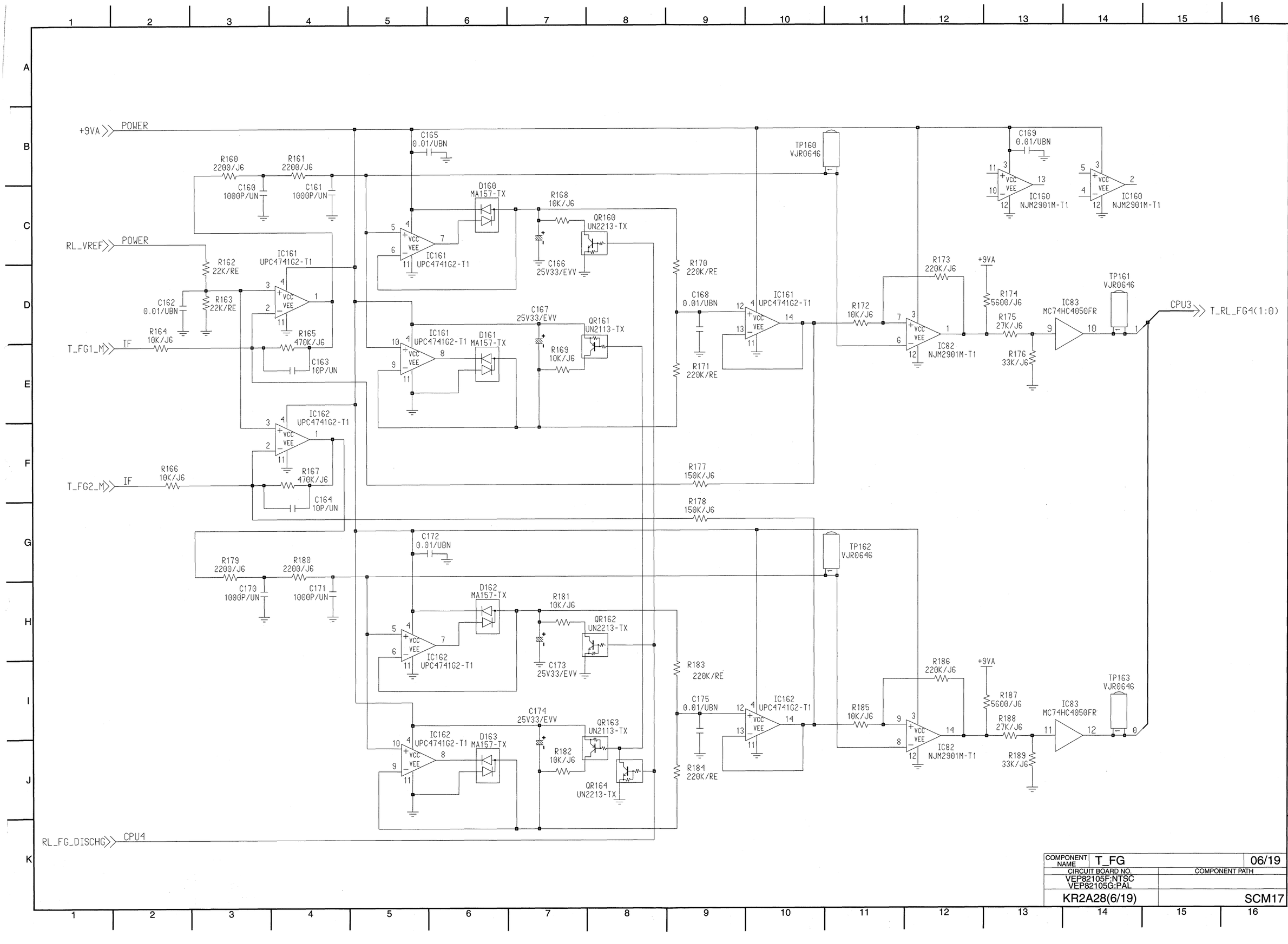
COMPONENT NAME	CTL 3
	03/19
CIRCUIT BOARD NO.	COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL	
KR2A28(3/19)	SCM14

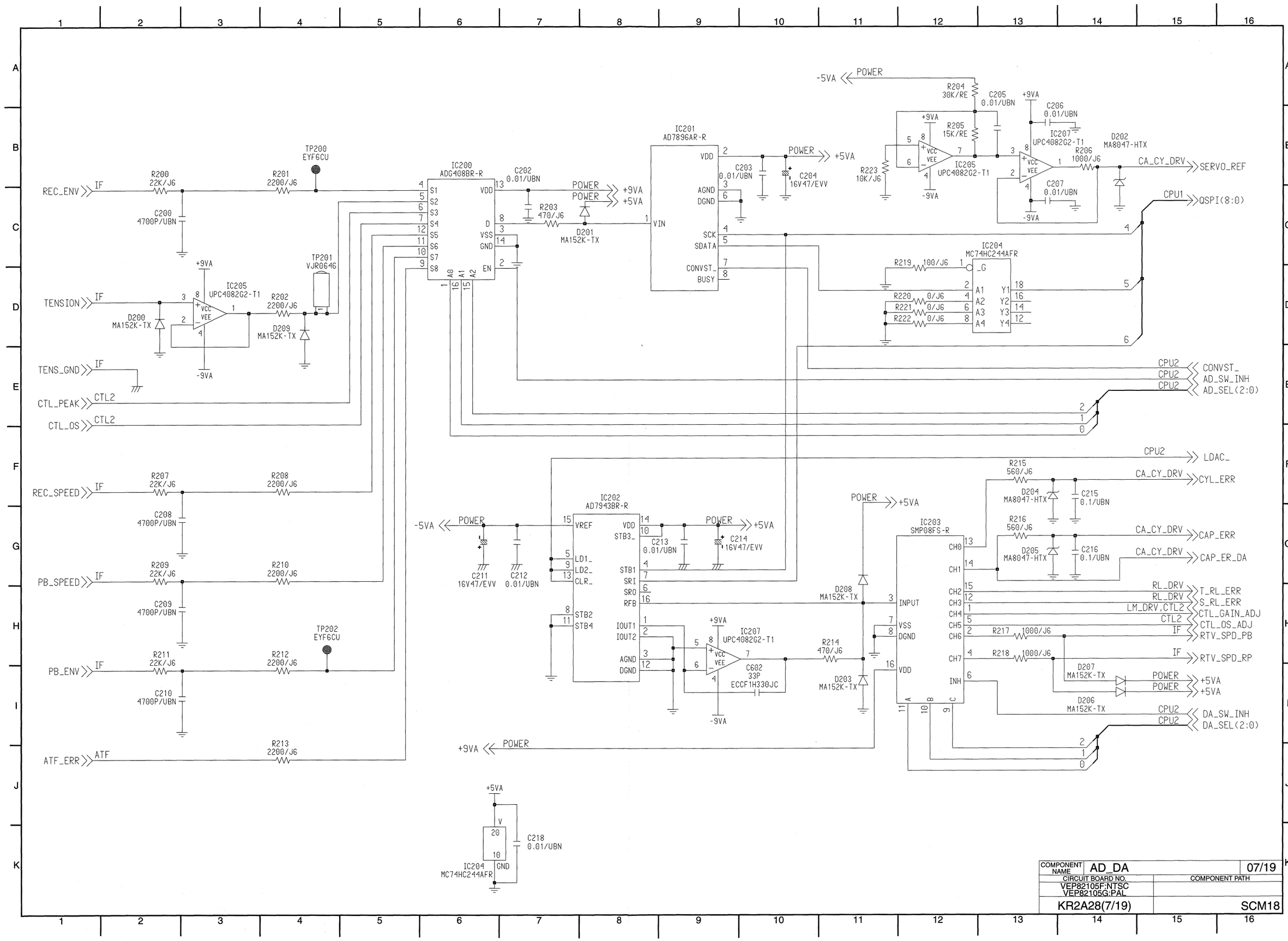


COMPONENT NAME	CAP_FG	04/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(4/19)		SCM15



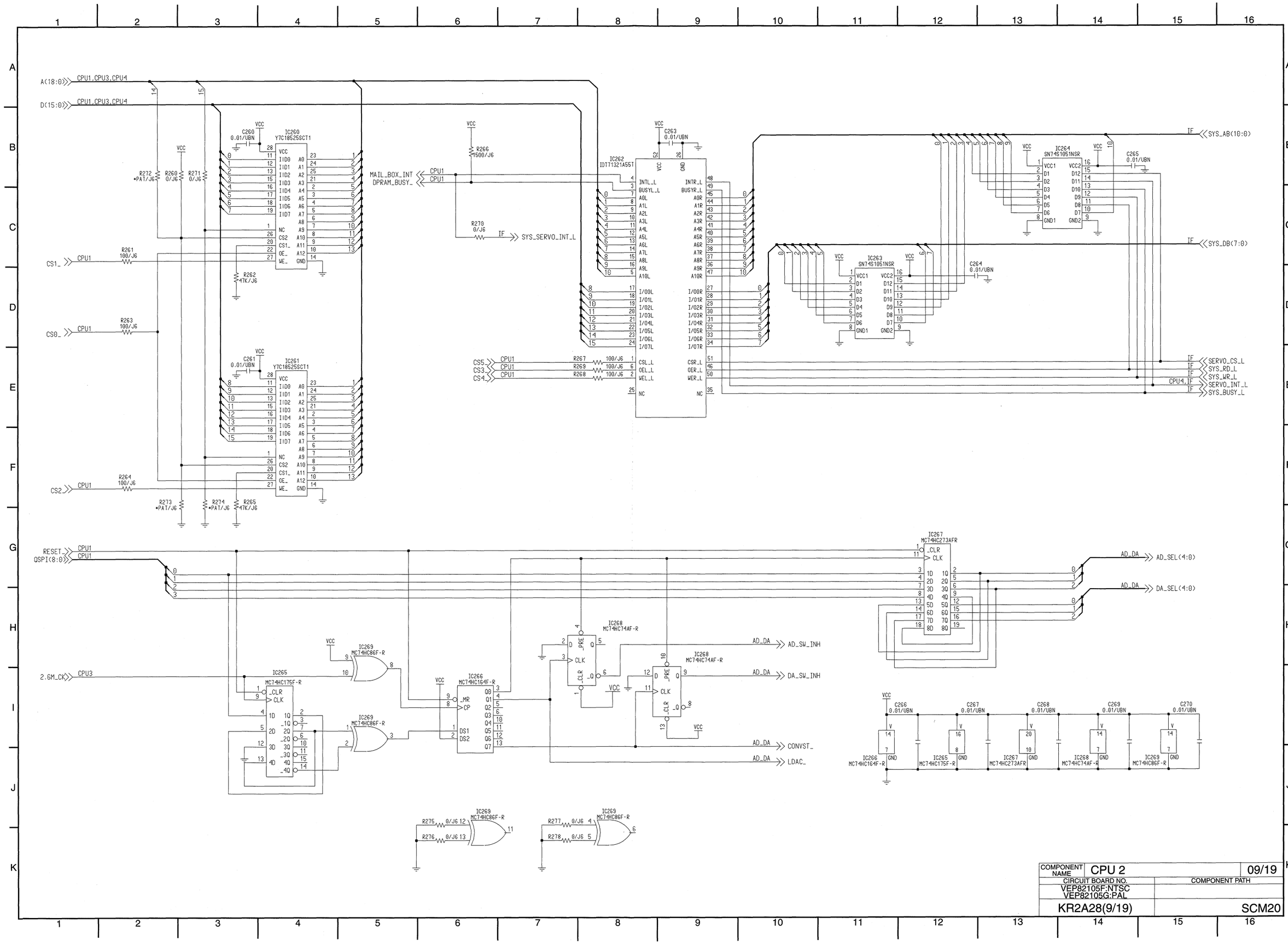
COMPONENT NAME	S_FG	05/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(5/19)		SCM16


+9VA
POWER
RL_VREF
T_FG1_M
T_FG2_M
IF
R160 2200/J6
R161 2200/J6
C160 1000P/UN
C161 1000P/UN
R162 22K/RE
R163 22K/RE
C162 0.01/UBN
R164 10K/J6
R165 470K/J6
C163 10P/UN
R166 10K/J6
R167 470K/J6
C164 10P/UN
C165 0.01/UBN
IC161 UPC4741G2-T1
D160 MA157-TX
R168 10K/J6
QR160 UN2213-TX
C166 25V33/EVV
C167 25V33/EVV
D161 MA157-TX
R169 10K/J6
QR161 UN2113-TX
IC162 UPC4741G2-T1
C172 0.01/UBN
R179 2200/J6
R180 2200/J6
C170 1000P/UN
C171 1000P/UN
D162 MA157-TX
R181 10K/J6
QR162 UN2213-TX
C173 25V33/EVV
C174 25V33/EVV
D163 MA157-TX
R182 10K/J6
QR163 UN2113-TX
QR164 UN2213-TX
RL_FG_DISCHG
CPU4
TP160 VJR0646
TP162 VJR0646
R170 220K/RE
R171 220K/RE
R183 220K/RE
R184 220K/RE
C168 0.01/UBN
C175 0.01/UBN
R177 150K/J6
R178 150K/J6
R172 10K/J6
R185 10K/J6
R173 220K/J6
R186 220K/J6
R174 5600/J6
R187 5600/J6
R175 27K/J6
R188 27K/J6
R176 33K/J6
R189 33K/J6
IC82 NJM2901M-T1
IC83 MC74HC4050FR
TP161 VJR0646
TP163 VJR0646
CPU3
T_RL_FG4(1:0)
C169 0.01/UBN
IC160 NJM2901M-T1
COMPONENT NAME
T_FG
06/19
CIRCUIT BOARD NO.
VEP82105F:NTSC
VEP82105G:PAL
COMPONENT PATH
KR2A28(6/19)
SCM17

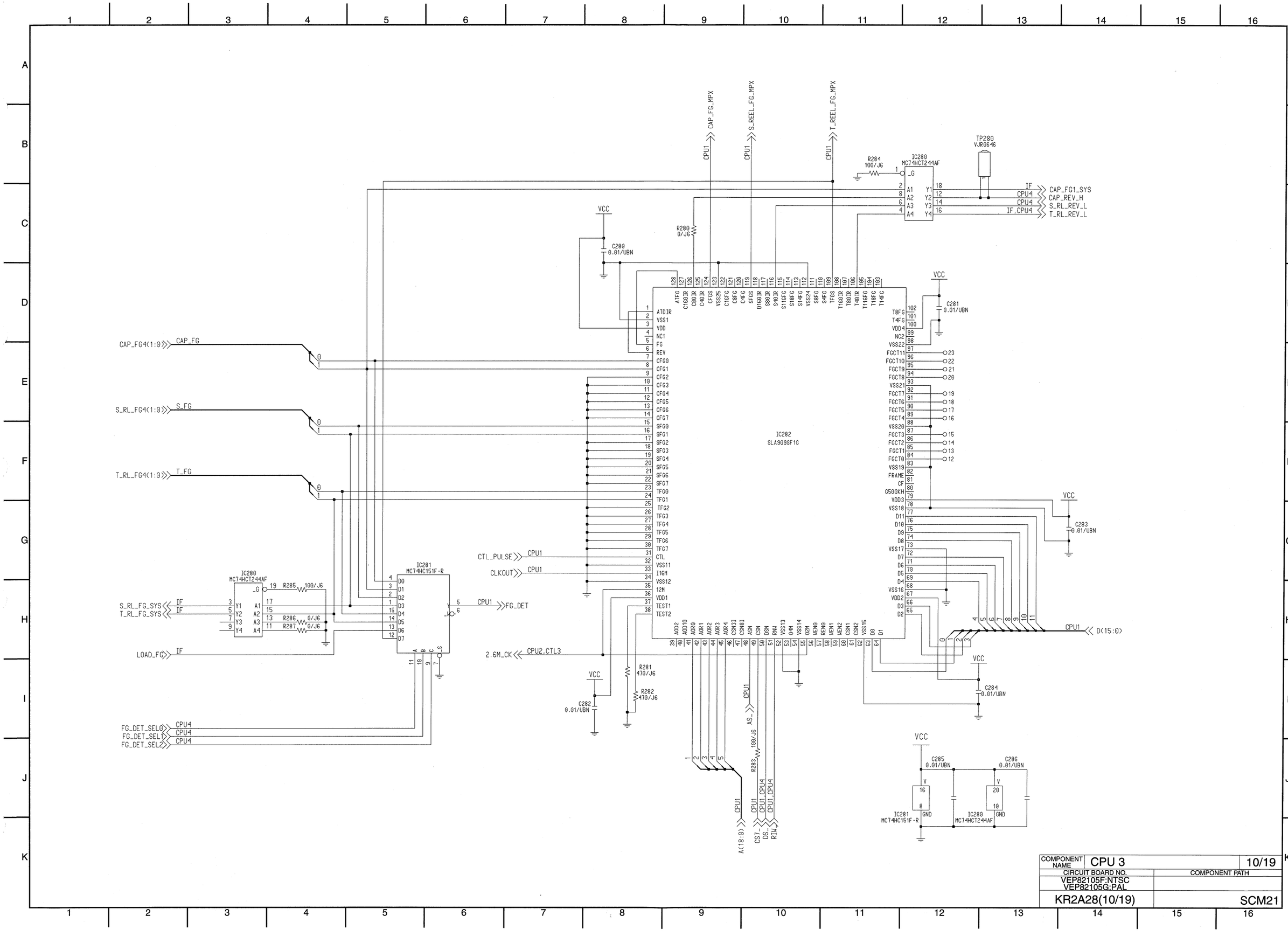


COMPONENT NAME	AD_DA
	07/19
CIRCUIT BOARD NO.	COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL	
KR2A28(7/19)	SCM18

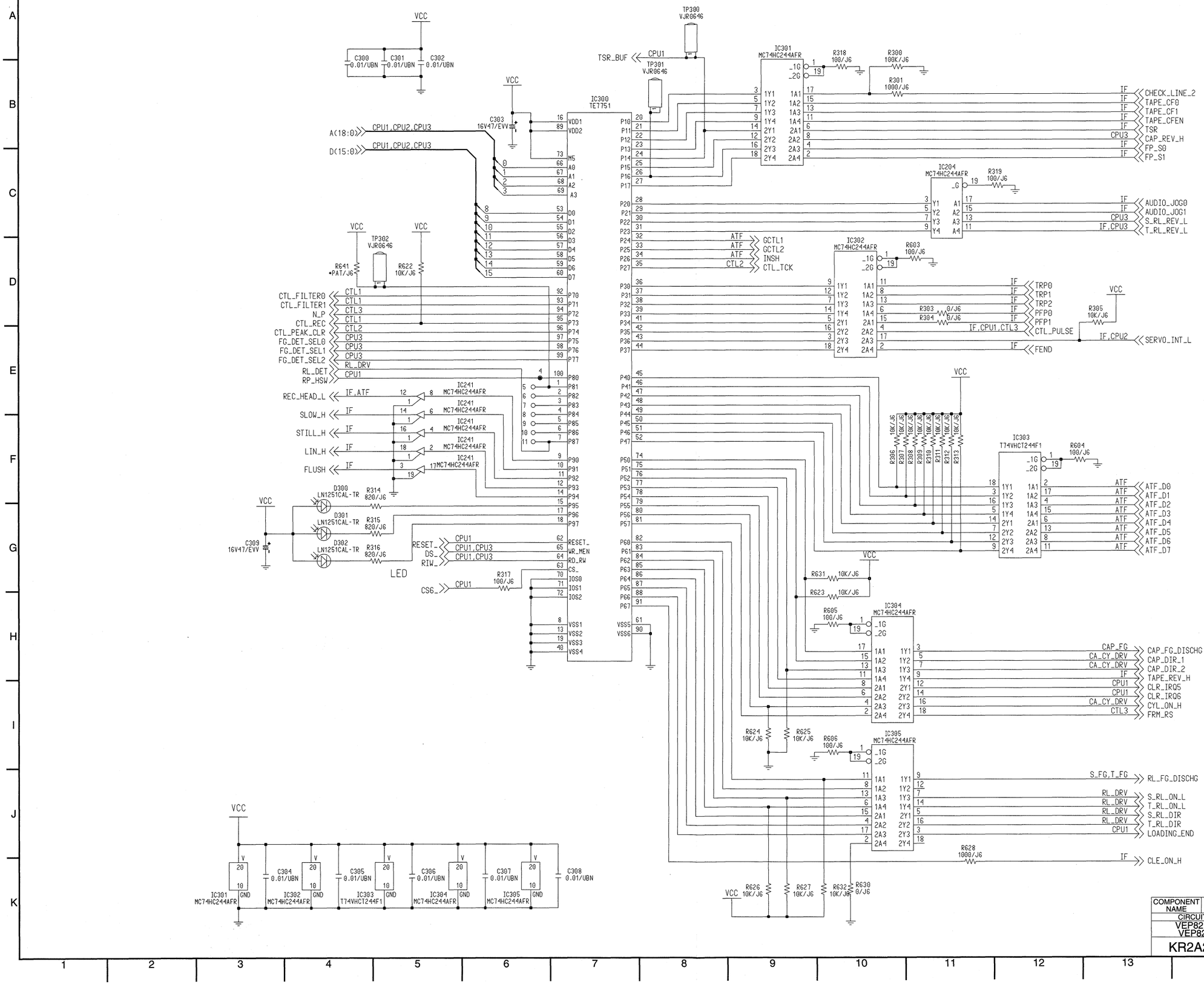
COMPONENT NAME	CPU 1	08/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(8/19)		SCM19

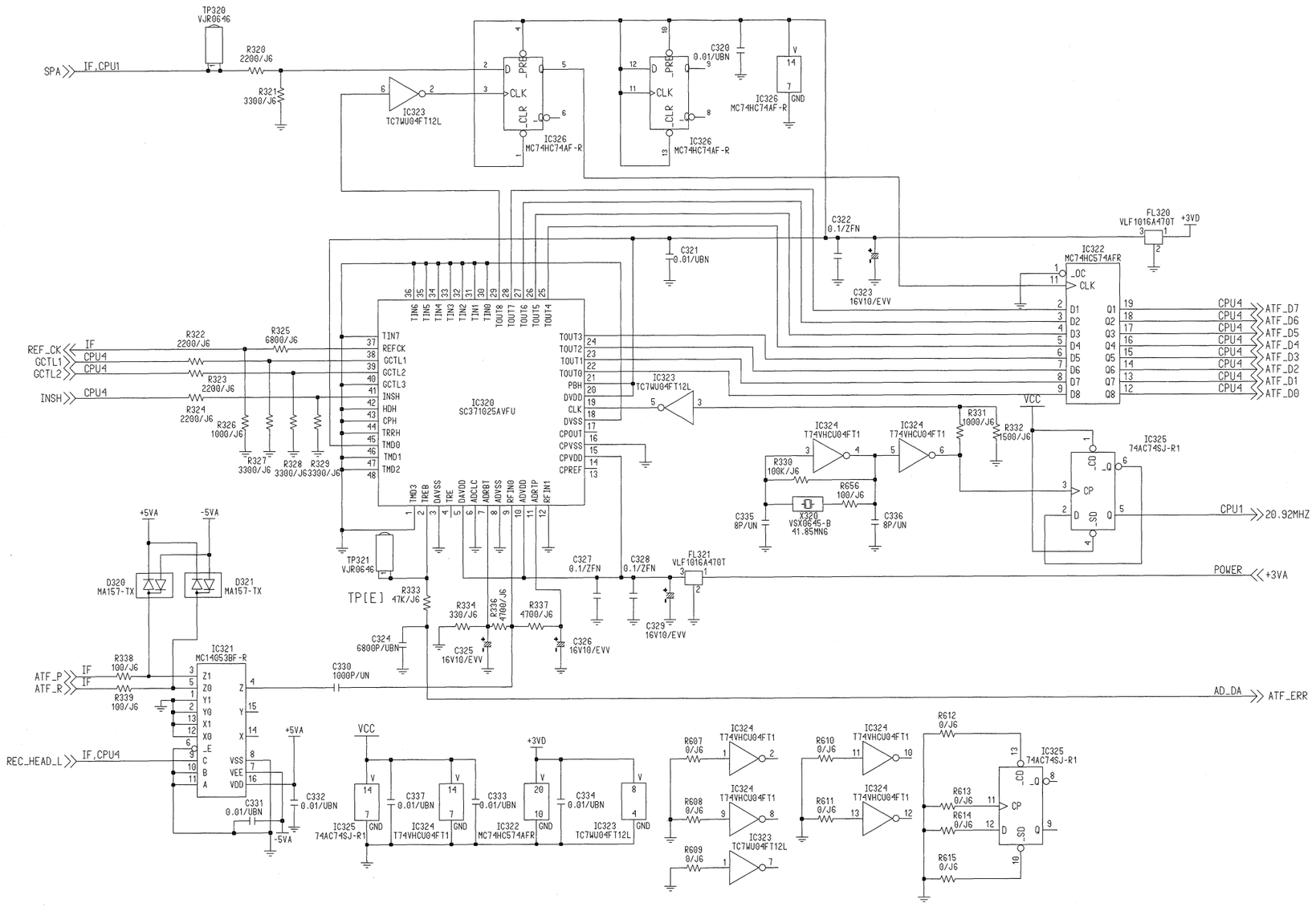


COMPONENT NAME	CPU 2	09/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(9/19)		SCM20

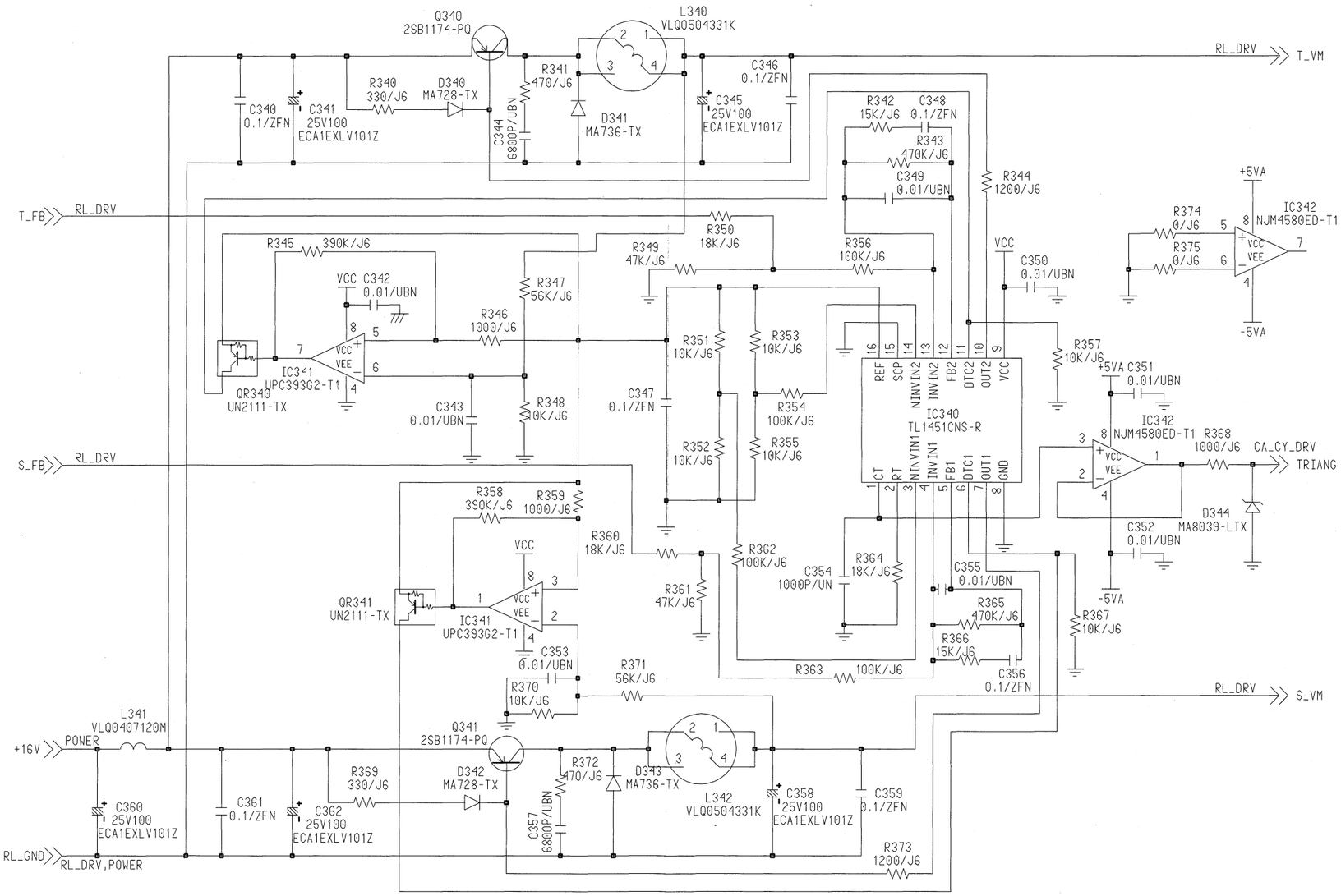


COMPONENT NAME	CPU 3	10/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(10/19)		SCM21

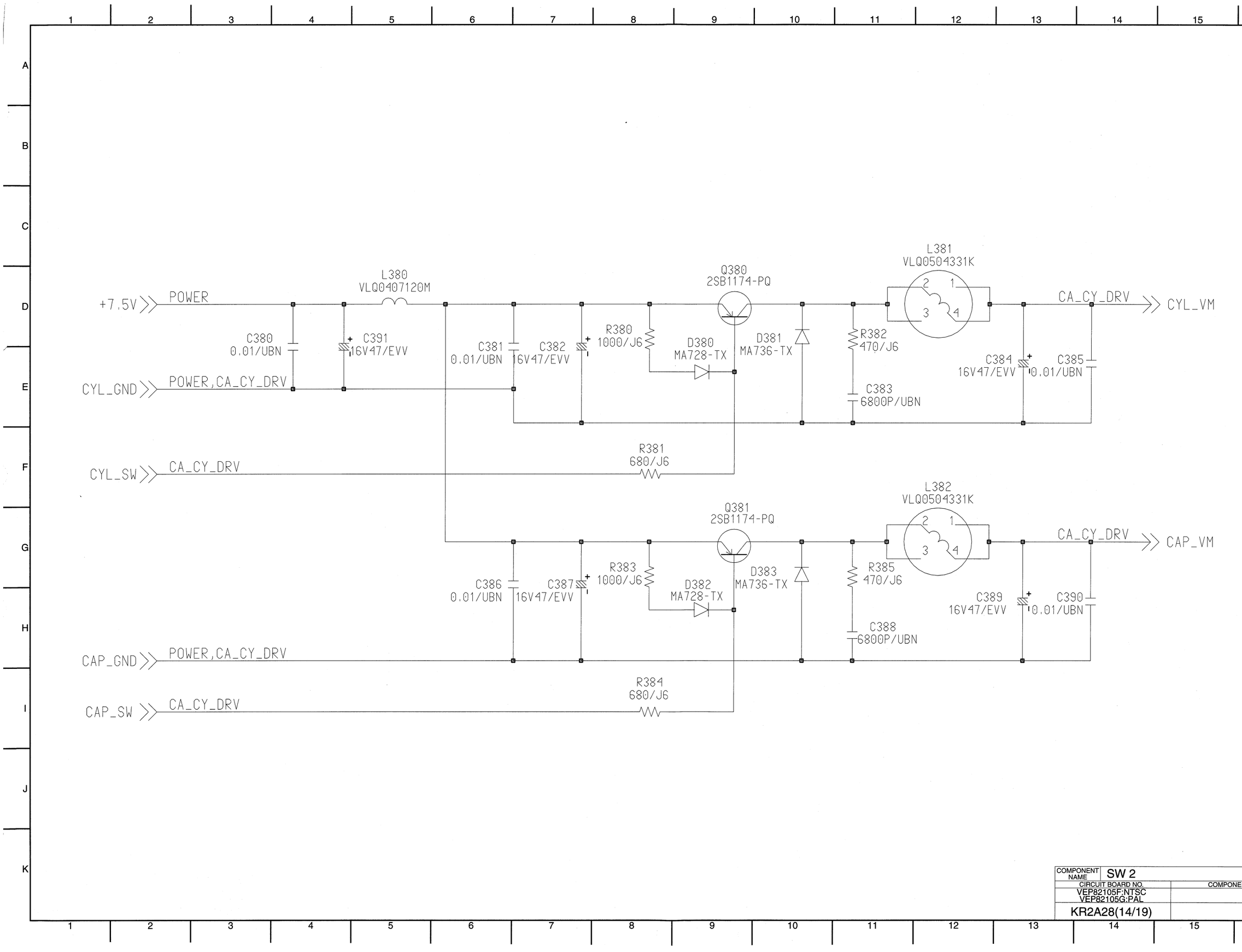

IC300 TE7751
CPU1
TSR_BUF
A(18:0) CPU1,CPU2,CPU3
D(15:0) CPU1,CPU2,CPU3
IC301 MC74HC244AFR
IC204 MC74HC244AFR
IC302 MC74HC244AFR
IC303 T74VHCT244F1
IC304 MC74HC244AFR
IC305 MC74HC244AFR
IC241 MC74HC244AFR
TP300 VJR0646
TP301 VJR0646
TP302 VJR0646
C300 0.01/UBN
C301 0.01/UBN
C302 0.01/UBN
C303 16V47/EVV
C309 16V47/EVV
C304 0.01/UBN
C305 0.01/UBN
C306 0.01/UBN
C307 0.01/UBN
C308 0.01/UBN
R318 100/J6
R300 100K/J6
R301 1000/J6
R319 100/J6
R603 100/J6
R303 0/J6
R304 0/J6
R305 10K/J6
R604 100/J6
R605 100/J6
R606 100/J6
R628 1000/J6
R641 *PAT/J6
R622 10K/J6
R317 100/J6
R314 820/J6
R315 820/J6
R316 820/J6
R631 10K/J6
R623 10K/J6
R624 10K/J6
R625 10K/J6
R626 10K/J6
R627 10K/J6
R632 10K/J6
R630 0/J6
D300 LN1251CAL-TR
D301 LN1251CAL-TR
D302 LN1251CAL-TR
LED
CHECK_LINE_2
TAPE_CF0
TAPE_CF1
TAPE_CFEN
TSR
CAP_REV_H
FP_S0
FP_S1
AUDIO_JOG0
AUDIO_JOG1
S_RL_REV_L
T_RL_REV_L
TRP0
TRP1
TRP2
PFP0
PFP1
CTL_PULSE
SERVO_INT_L
FEND
ATF_D0
ATF_D1
ATF_D2
ATF_D3
ATF_D4
ATF_D5
ATF_D6
ATF_D7
CAP_FG_DISCHG
CAP_DIR_1
CAP_DIR_2
TAPE_REV_H
CLR_IRQ5
CLR_IRQ6
CYL_ON_H
FRM_RS
RL_FG_DISCHG
S_RL_ON_L
T_RL_ON_L
S_RL_DIR
T_RL_DIR
LOADING_END
CLE_ON_H
CTL_FILTER0
CTL_FILTER1
N_P
CTL_REC
CTL_PEAK_CLR
FG_DET_SEL0
FG_DET_SEL1
FG_DET_SEL2
RL_DET
RP_HSW
REC_HEAD_L
SLOW_H
STILL_H
LIN_H
FLUSH
RESET_
DS_
RIW_
CS6_
GCTL1
GCTL2
INSH
CTL_TCK
CAP_FG
CA_CY_DRV
IF
CPU1
CPU3
S_FG,T_FG
RL_DRV
VCC
GND
COMPONENT NAME CPU 4
11/19
CIRCUIT BOARD NO.
VEP82105F:NTSC
VEP82105G:PAL
COMPONENT PATH
KR2A28(11/19)
SCM22



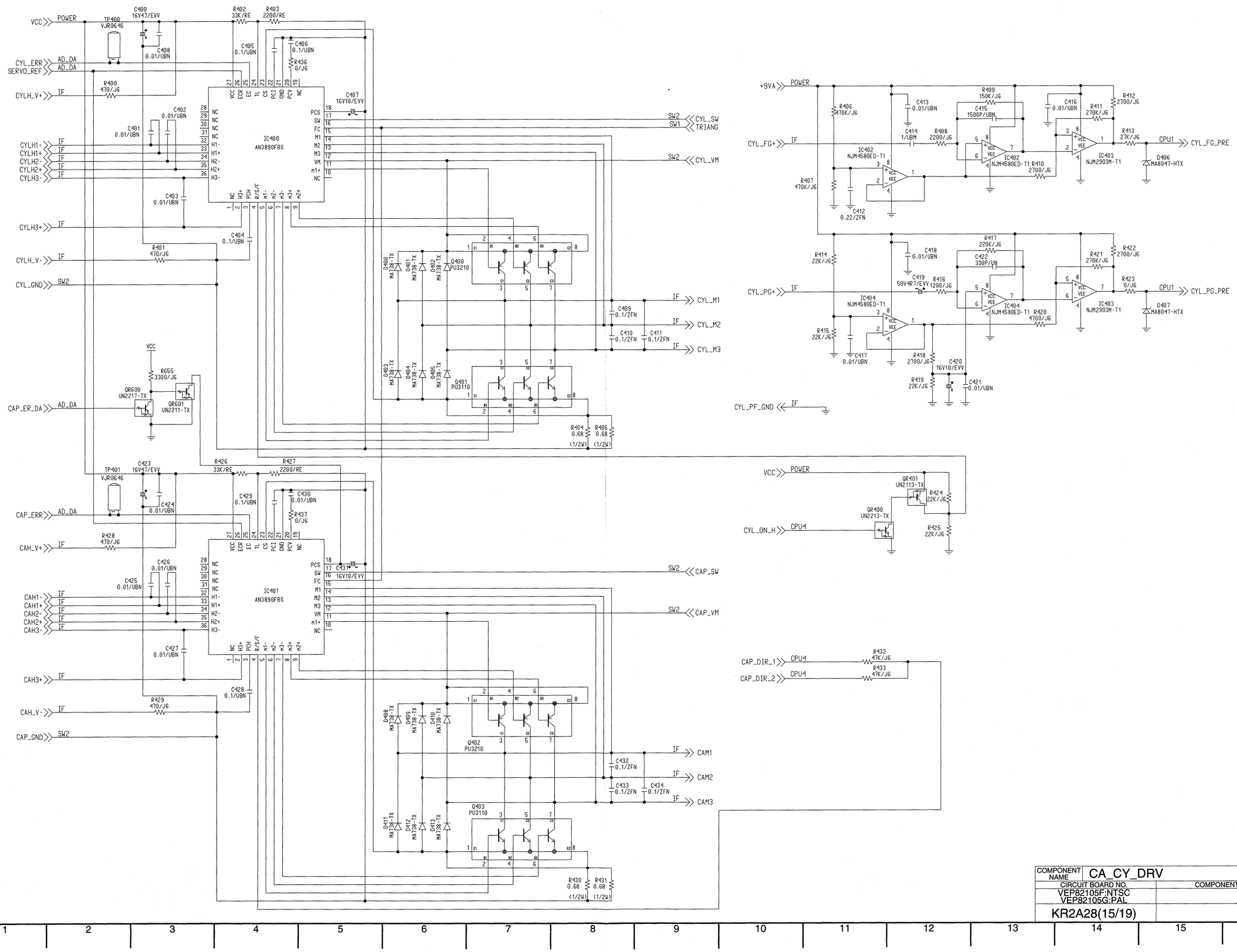
COMPONENT NAME	ATF
	12/19
CIRCUIT BOARD NO.	COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL	
KR2A28(12/19)	SCM23



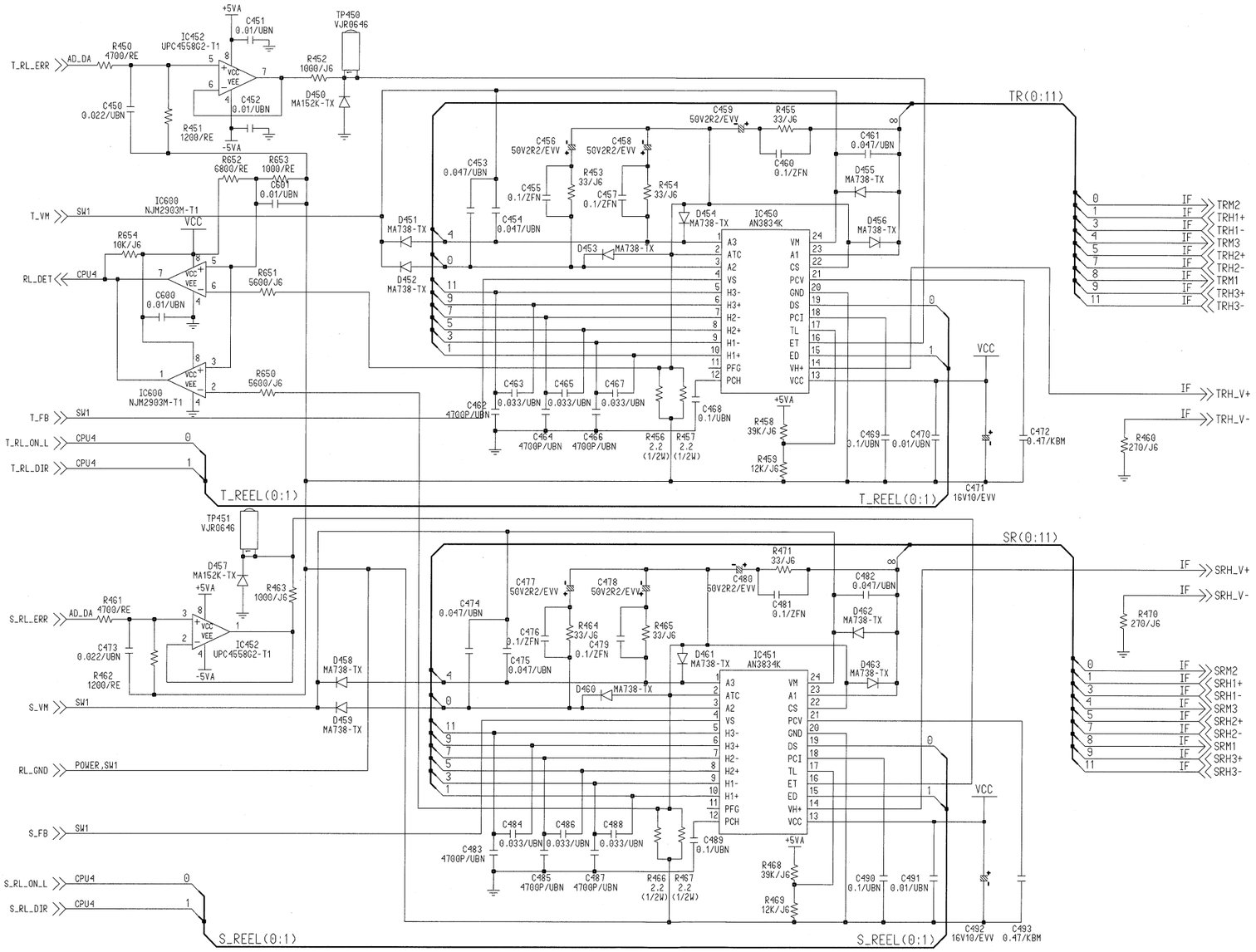
COMPONENT NAME	SW 1	13/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(13/19)		SCM24



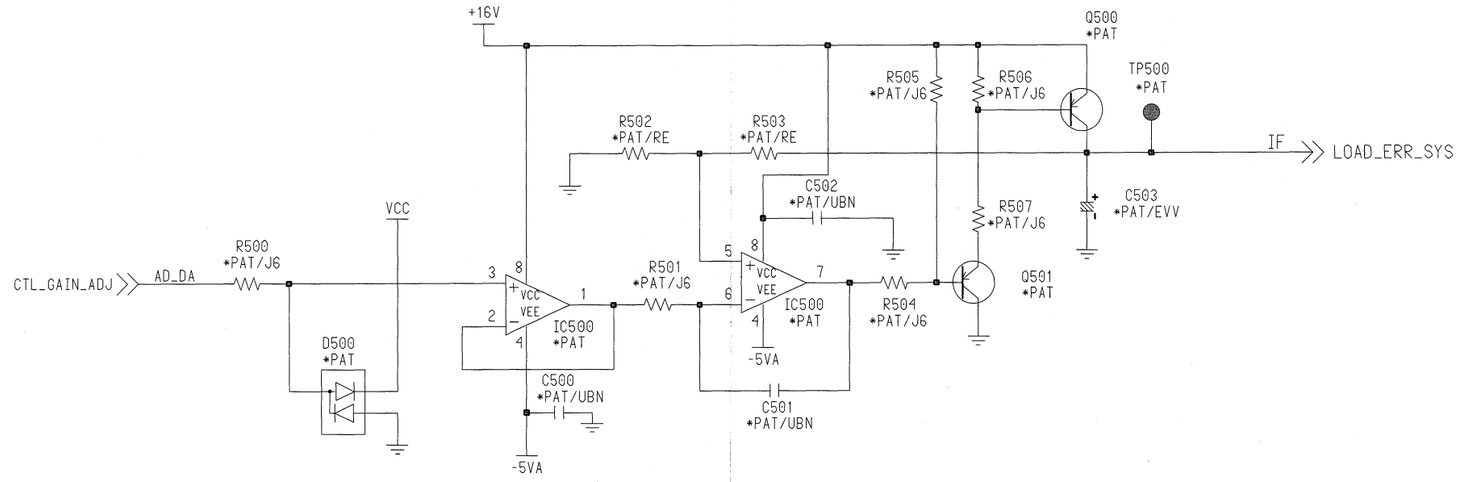
COMPONENT NAME	SW 2
	14/19
CIRCUIT BOARD NO.	COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL	
KR2A28(14/19)	SCM25



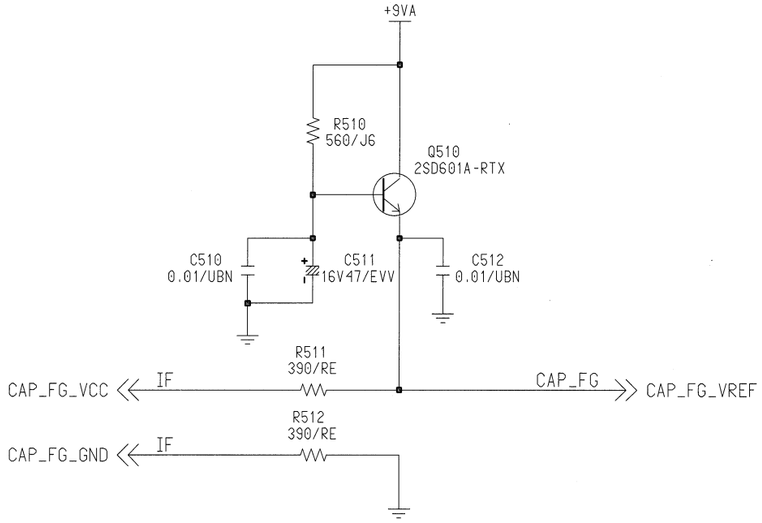
COMPONENT NAME	CA_CY_DRV 15/19
CIRCUIT BOARD NO.	COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL	
KR2A28(15/19)	SCM26

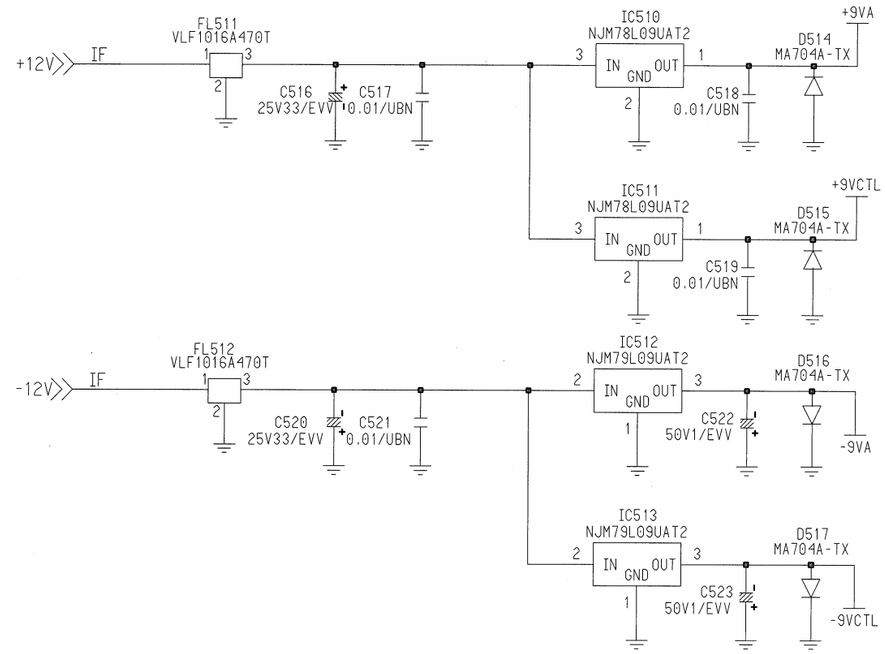


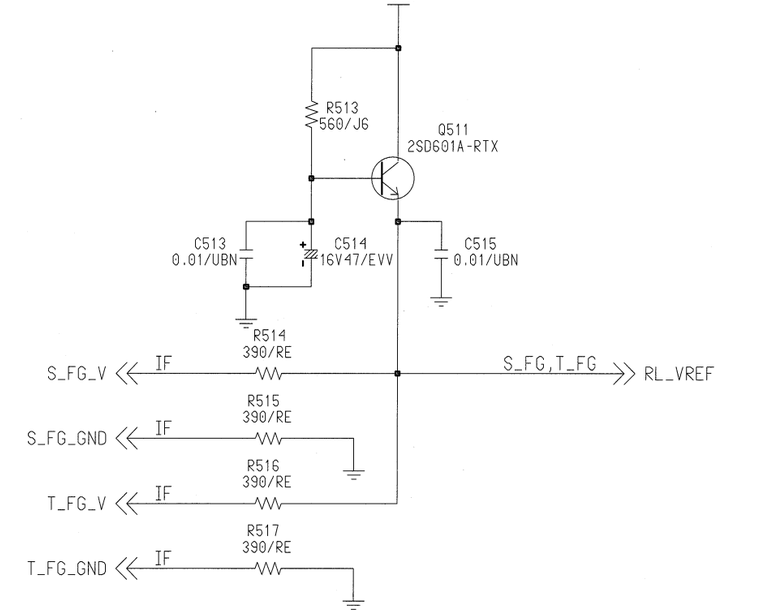
COMPONENT NAME	RL_DRV	16/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(16/19)		SCM27

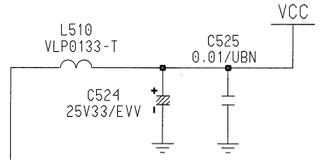


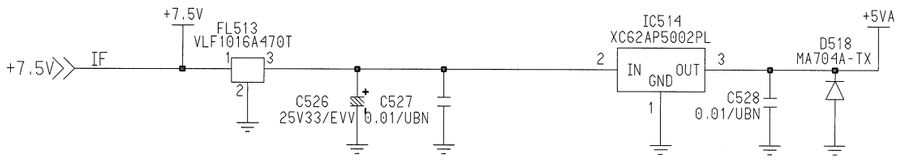
COMPONENT NAME	LM_DRV	17/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(17/19)		SCM28

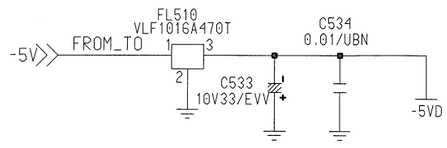


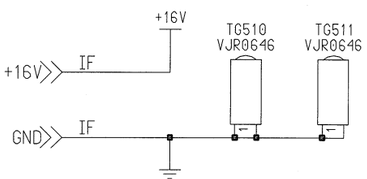


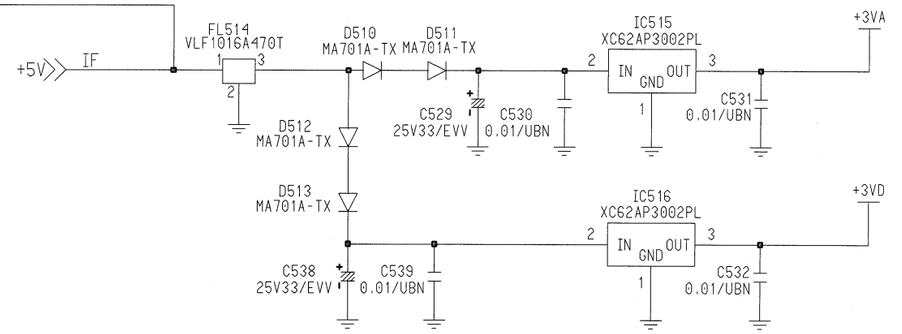


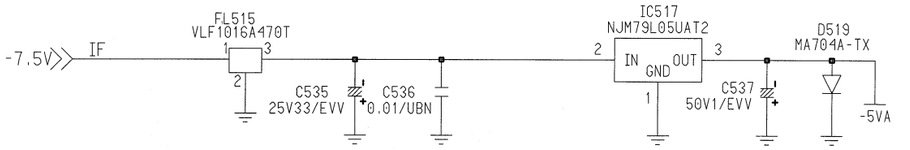


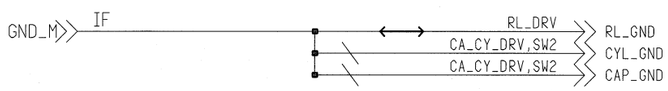




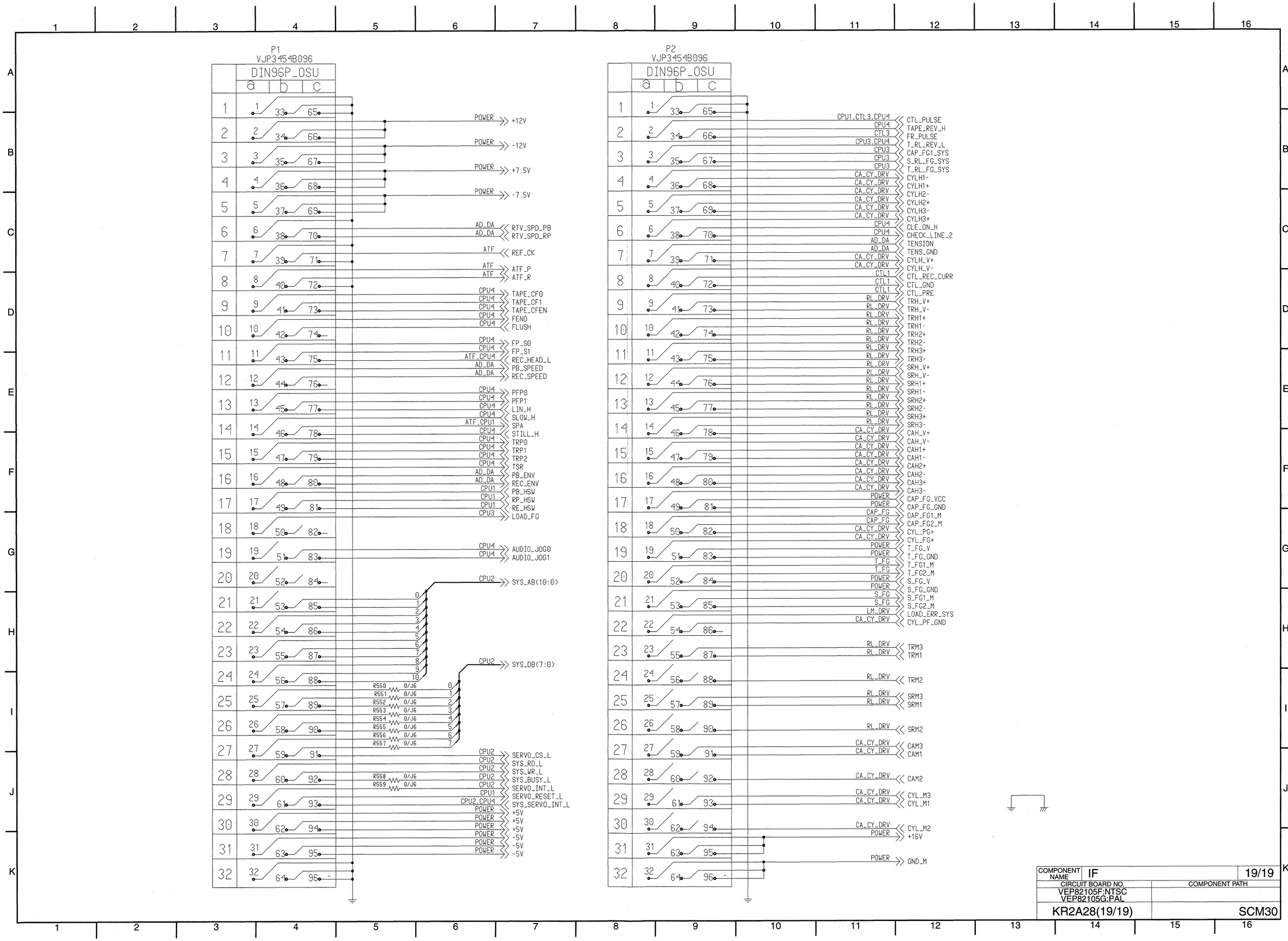




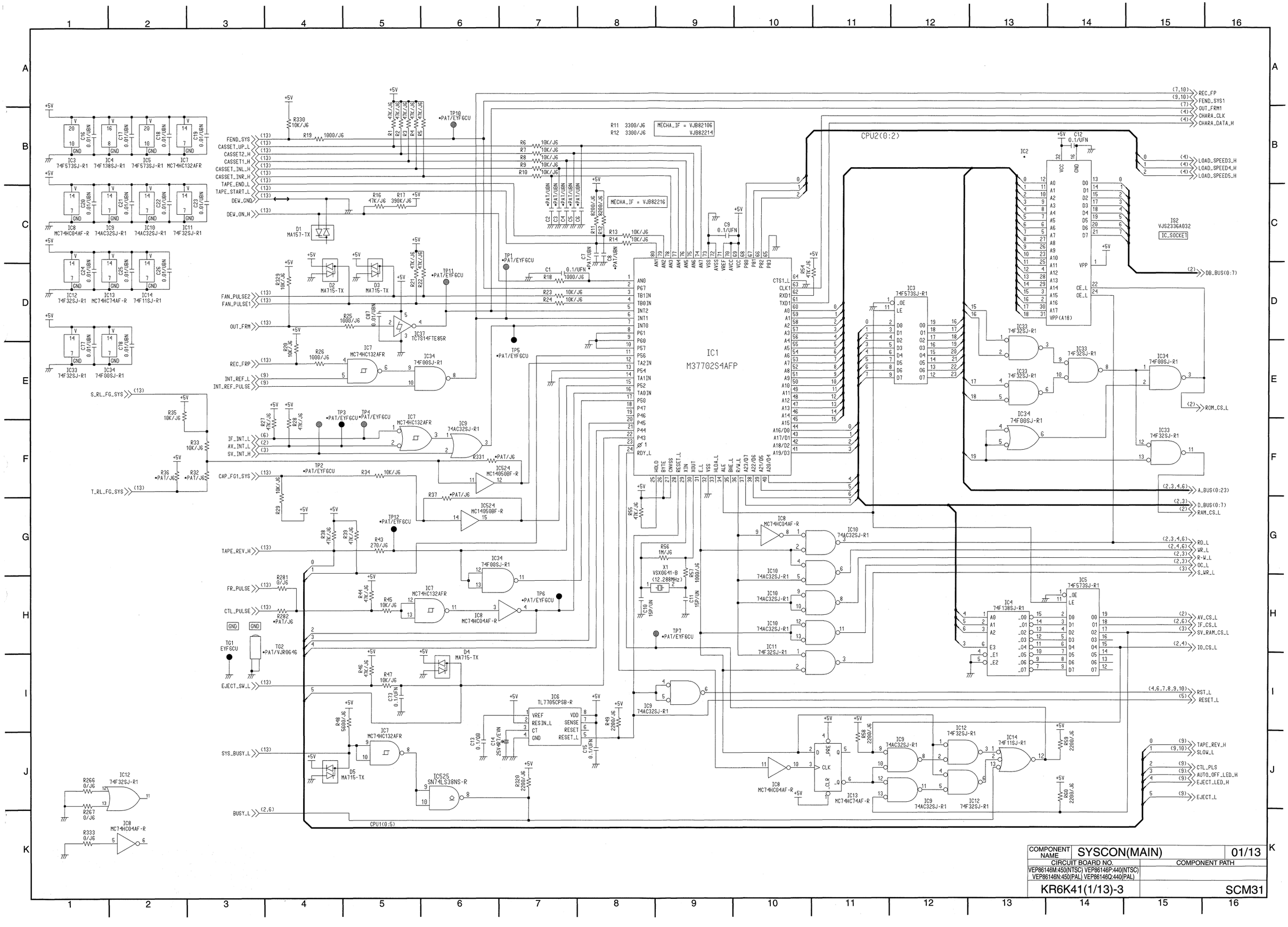




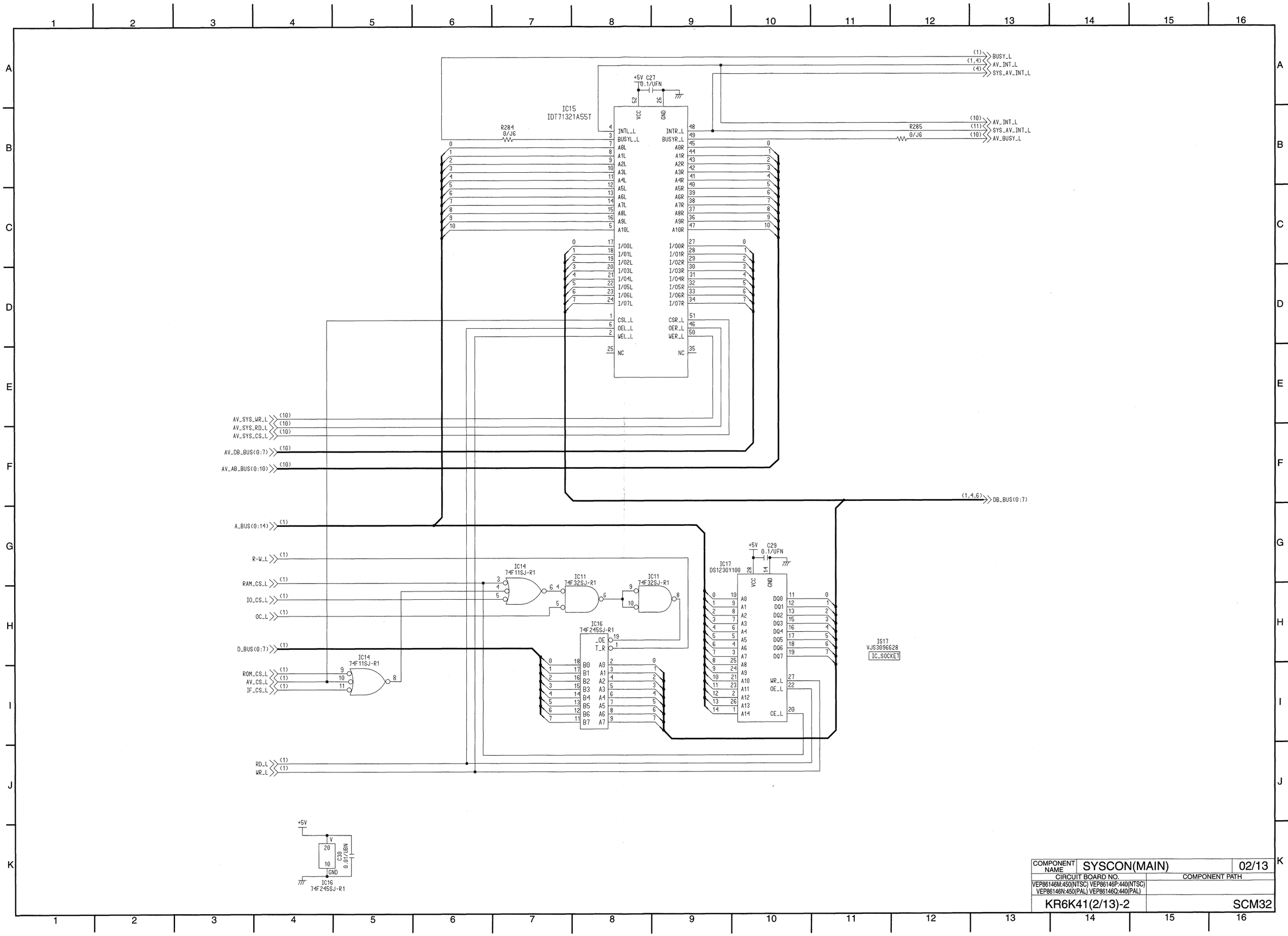
COMPONENT NAME	POWER	18/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(18/19)		SCM29



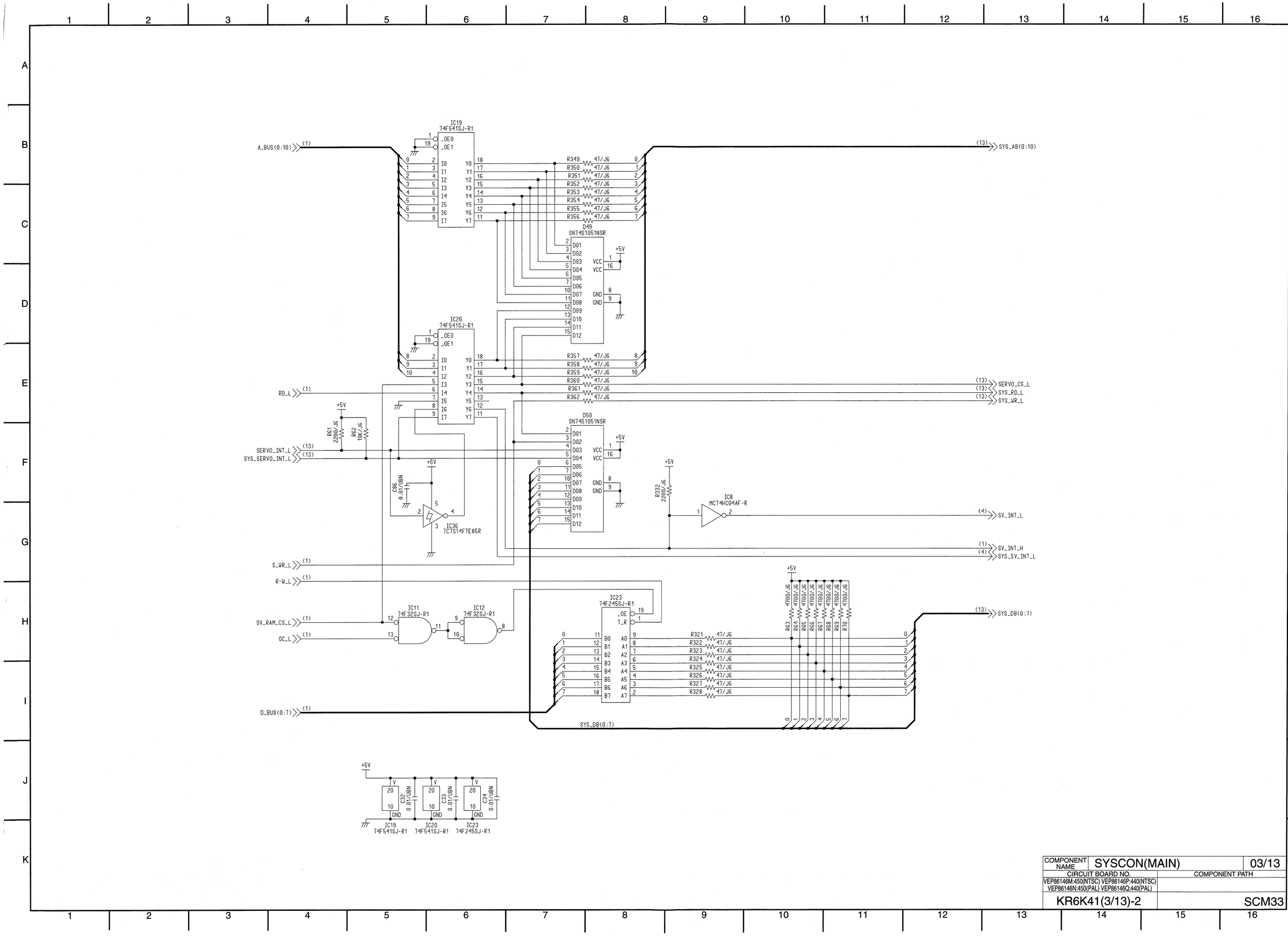
COMPONENT NAME	IF	19/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(19/19)		SCM30



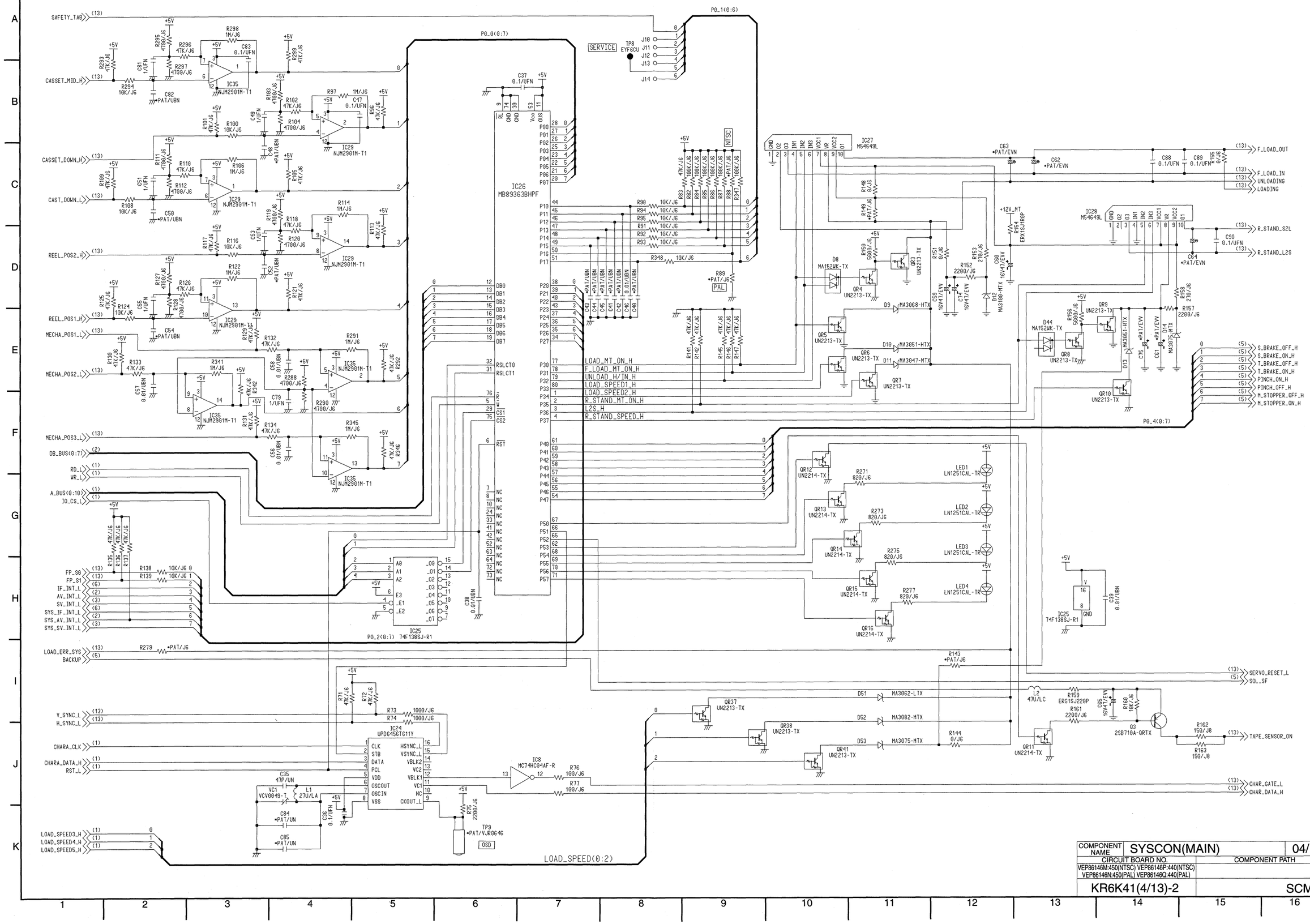
COMPONENT NAME	SYSCON(MAIN) 01/13
CIRCUIT BOARD NO.	COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)	
KR6K41(1/13)-3	SCM31



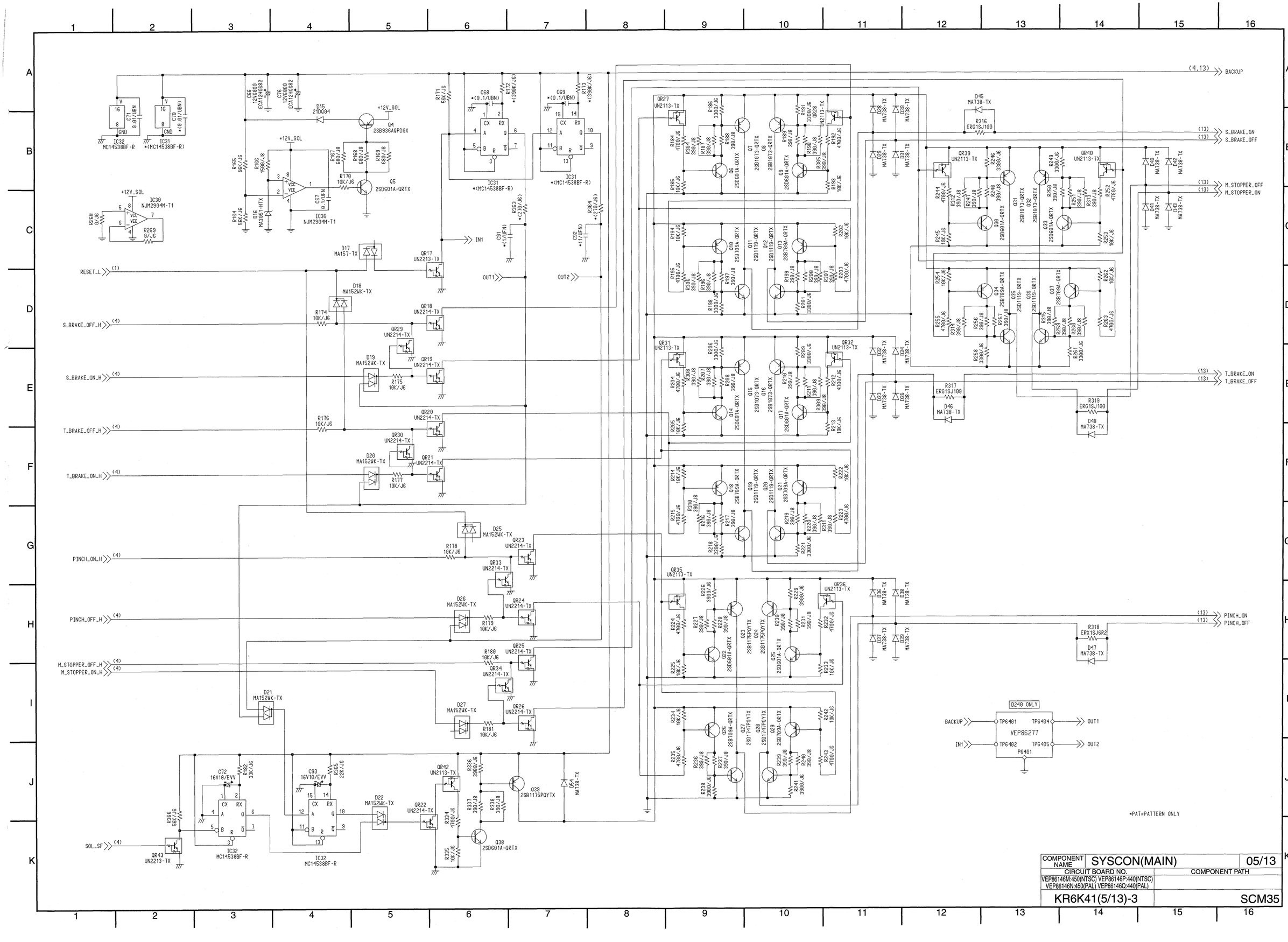
COMPONENT NAME	SYSCON(MAIN) 02/13
CIRCUIT BOARD NO.	COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)	
KR6K41(2/13)-2	SCM32

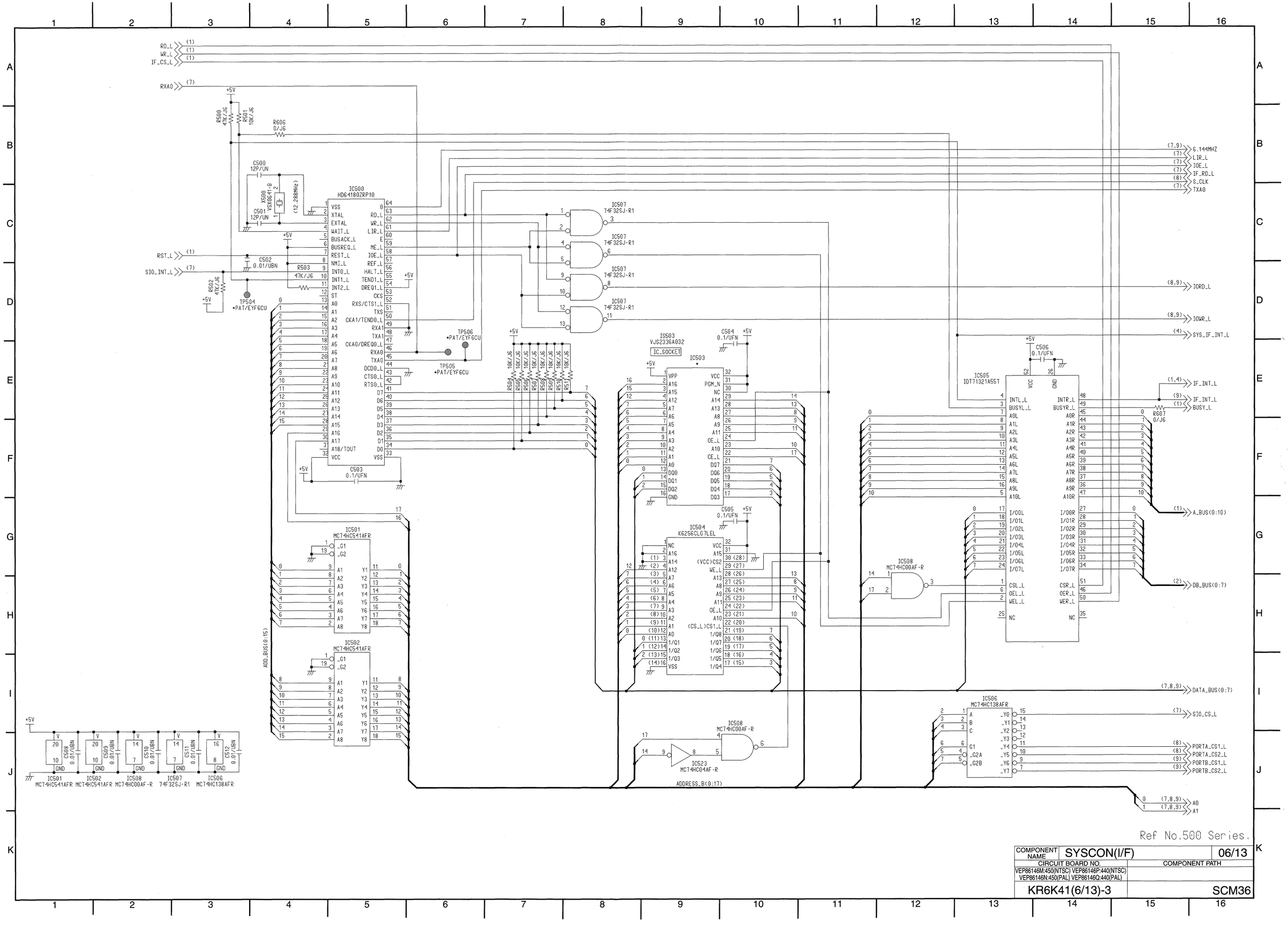


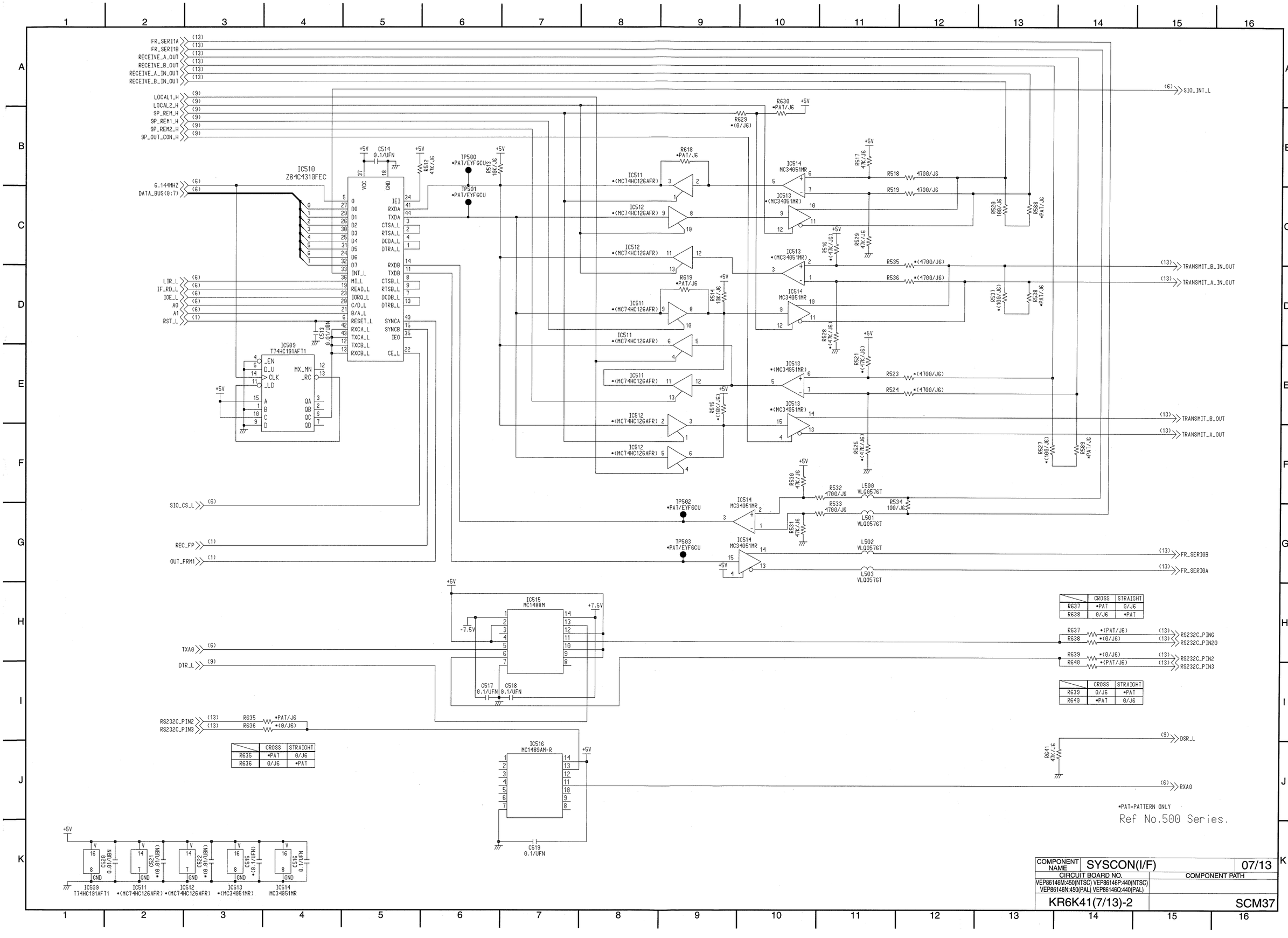
COMPONENT NAME	SYSCON(MAIN)	03/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(3/13)-2		SCM33

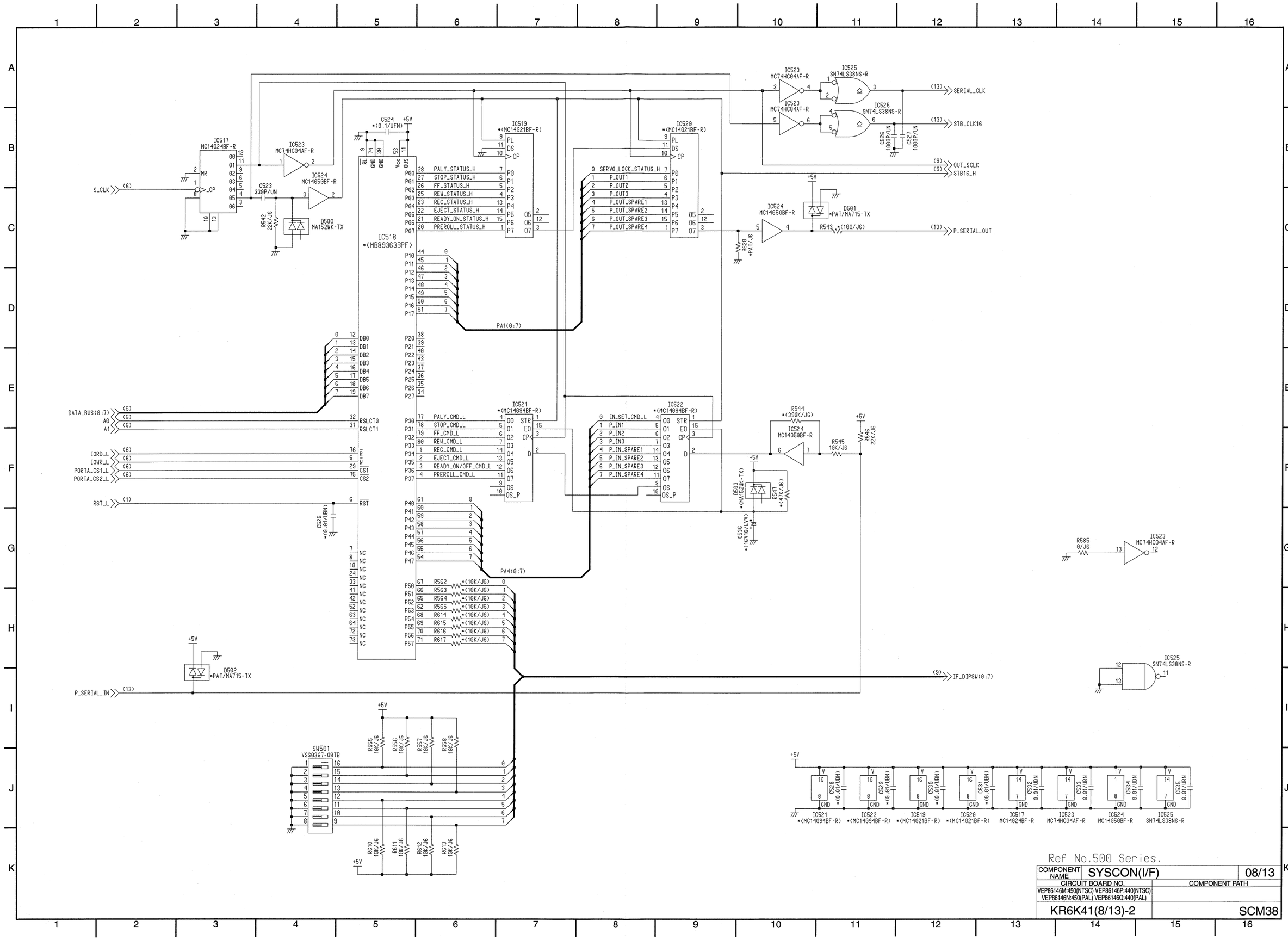


COMPONENT NAME	SYSCON(MAIN)	04/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(4/13)-2		SCM34


IC32 MC14538BF-R
IC31 *(MC14538BF-R)
IC30 NJM2904M-T1
+12V_SOL
C71 0.01/UBN
C70 *(0.01/UBN)
C56 12V6800 ECA1AHG682
C76 12V6800 ECA1AHG682
D15 21DQ04
Q4 2SB936AQPDSX
R155 56K/J6
R156 1500/J8
R157 680/J8
R158 680/J8
R159 680/J8
R164 56K/J6
D16 MA3051-HTX
R170 10K/J6
Q5 2SD601A-QRTX
C67 0.1/UFN
R268 0/J6
R269 0/J6
R171 56K/J6
C68 *(0.1/UBN)
C69 *(0.1/UBN)
R172 *(390/J6)
R173 *(390/J6)
R363 *(270/J6)
R364 *(270/J6)
C91 *(1/UFN)
C92 *(1/UFN)
IN1
OUT1
OUT2
RESET_L
S_BRAKE_OFF_H
S_BRAKE_ON_H
T_BRAKE_OFF_H
T_BRAKE_ON_H
PINCH_ON_H
PINCH_OFF_H
M_STOPPER_OFF_H
M_STOPPER_ON_H
SOL_SF
D17 MA157-TX
D18 MA152WK-TX
D19 MA152WK-TX
D20 MA152WK-TX
D21 MA152WK-TX
D22 MA152WK-TX
D25 MA152WK-TX
D26 MA152WK-TX
D27 MA152WK-TX
R174 10K/J6
R175 10K/J6
R176 10K/J6
R177 10K/J6
R178 10K/J6
R179 10K/J6
R180 10K/J6
R181 10K/J6
QR17 UN2213-TX
QR18 UN2214-TX
QR19 UN2214-TX
QR20 UN2214-TX
QR21 UN2214-TX
QR22 UN2214-TX
QR23 UN2214-TX
QR24 UN2214-TX
QR25 UN2214-TX
QR26 UN2214-TX
QR27 UN2113-TX
QR28 UN2113-TX
QR29 UN2214-TX
QR30 UN2214-TX
QR31 UN2113-TX
QR32 UN2113-TX
QR33 UN2214-TX
QR34 UN2214-TX
QR35 UN2113-TX
QR36 UN2113-TX
QR39 UN2113-TX
QR40 UN2113-TX
QR42 UN2113-TX
QR43 UN2213-TX
C72 16V10/EVV
C93 16V10/EVV
R182 33K/J6
R183 22K/J6
R365 56K/J6
R366 56K/J6
Q38 2SDG01A-QRTX
Q39 2SB1175PQYTX
D54 MA738-TX
Q5 2SD601A-QRTX
Q7 2SB1073-QRTX
Q9 2SD601A-QRTX
Q10 2SB709A-QRTX
Q11 2SD1119-QRTX
Q12 2SD1119-QRTX
Q13 2SB709A-QRTX
Q14 2SD601A-QRTX
Q15 2SB1073-QRTX
Q17 2SD601A-QRTX
Q18 2SB709A-QRTX
Q19 2SD1119-QRTX
Q20 2SD1119-QRTX
Q21 2SB709A-QRTX
Q22 2SD601A-QRTX
Q23 2SB1175PQYTX
Q25 2SD601A-QRTX
Q26 2SB709A-QRTX
Q27 2SD1174PQYTX
Q28 2SD1174PQYTX
Q29 2SB709A-QRTX
Q31 2SB1073-QRTX
Q32 2SB1073-QRTX
Q33 2SD601A-QRTX
Q34 2SB709A-QRTX
Q35 2SD1119-QRTX
Q36 2SD1119-QRTX
Q37 2SB709A-QRTX
D28 MA738-TX
D29 MA738-TX
D30 MA738-TX
D31 MA738-TX
D32 MA738-TX
D33 MA738-TX
D34 MA738-TX
D35 MA738-TX
D36 MA738-TX
D37 MA738-TX
D38 MA738-TX
D39 MA738-TX
D40 MA738-TX
D41 MA738-TX
D42 MA738-TX
D43 MA738-TX
D45 MA738-TX
D46 MA738-TX
D47 MA738-TX
D48 MA738-TX
R316 ERG1SJ100
R317 ERG1SJ100
R318 ERX1SJ6R2
R319 ERG1SJ100
(4,13) BACKUP
(13) S_BRAKE_ON
(13) S_BRAKE_OFF
(13) M_STOPPER_OFF
(13) M_STOPPER_ON
(13) T_BRAKE_ON
(13) T_BRAKE_OFF
(13) PINCH_ON
(13) PINCH_OFF
D240 ONLY
BACKUP
IN1
TP6401
TP6404
TP6402
TP6405
VEP86277
PG401
OUT1
OUT2
*PAT=PATTERN ONLY
COMPONENT NAME
SYSCON(MAIN)
05/13
CIRCUIT BOARD NO.
COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC)
VEP86146N:450(PAL) VEP86146Q:440(PAL)
KR6K41(5/13)-3
SCM35

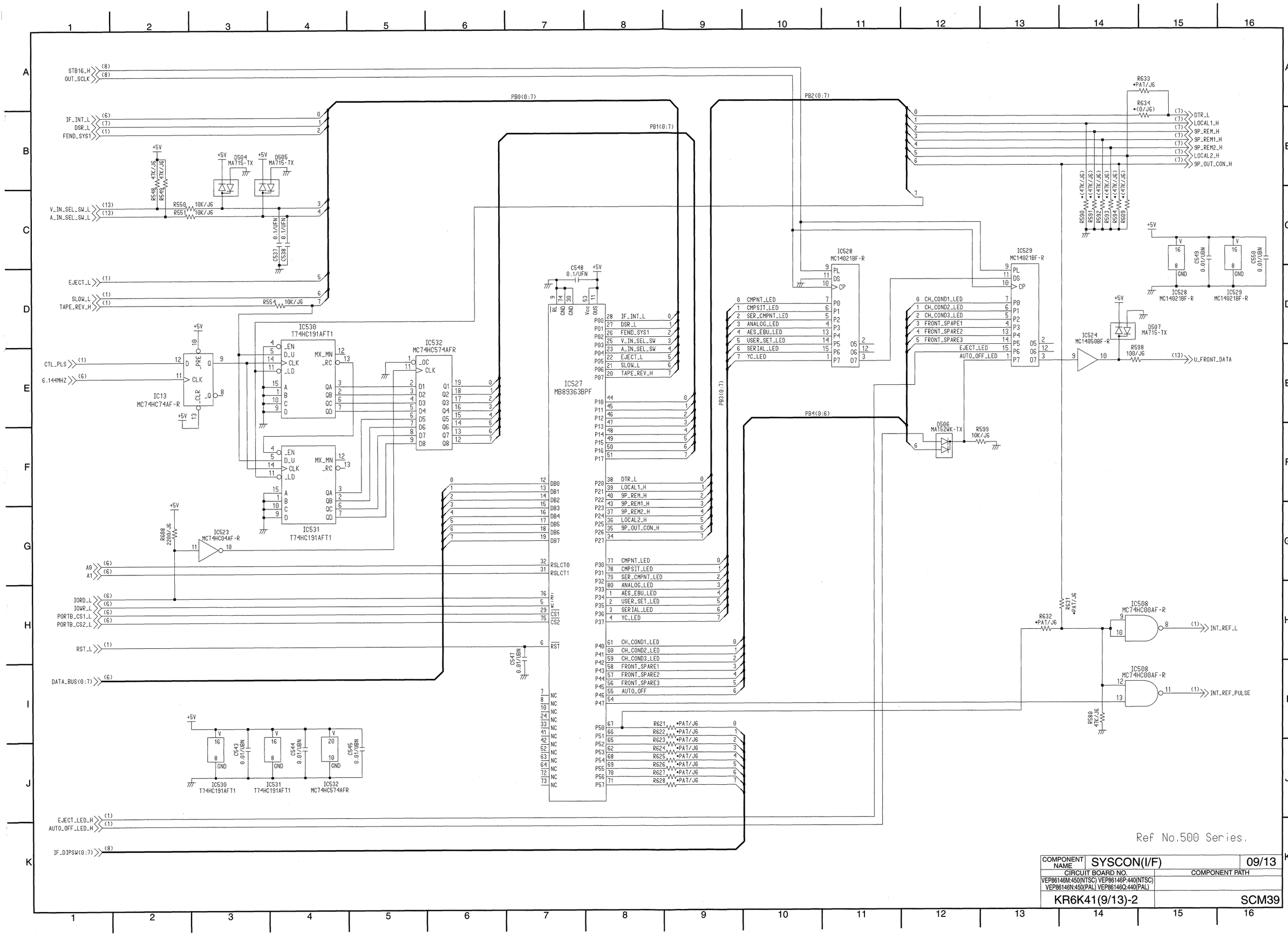

RD_L
WR_L
IF_CS_L
RXA0
RST_L
SIO_INT_L
IC500
HD64180ZRP10
IC501
MC74HC541AFR
IC502
MC74HC541AFR
IC503
IC_SOCKET
IC504
K6256CLG7LEL
IC505
IDT71321A55T
IC506
MC74HC138AFR
IC507
74F32SJ-R1
IC508
MC74HC00AF-R
IC523
MC74HC04AF-R
ADD_BUS(0:15)
ADDRESS_B(0:17)
DATA_BUS(0:7)
A_BUS(0:10)
DB_BUS(0:7)
SIO_CS_L
PORTA_CS1_L
PORTA_CS2_L
PORTB_CS1_L
PORTB_CS2_L
IORD_L
IOWR_L
SYS_IF_INT_L
IF_INT_L
BUSY_L
6.144MHZ
LIR_L
IOE_L
IF_RD_L
S_CLK
TXA0
Ref No.500 Series.
COMPONENT NAME
SYSCON(I/F)
06/13
CIRCUIT BOARD NO.
COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC)
VEP86146N:450(PAL) VEP86146Q:440(PAL)
KR6K41(6/13)-3
SCM36

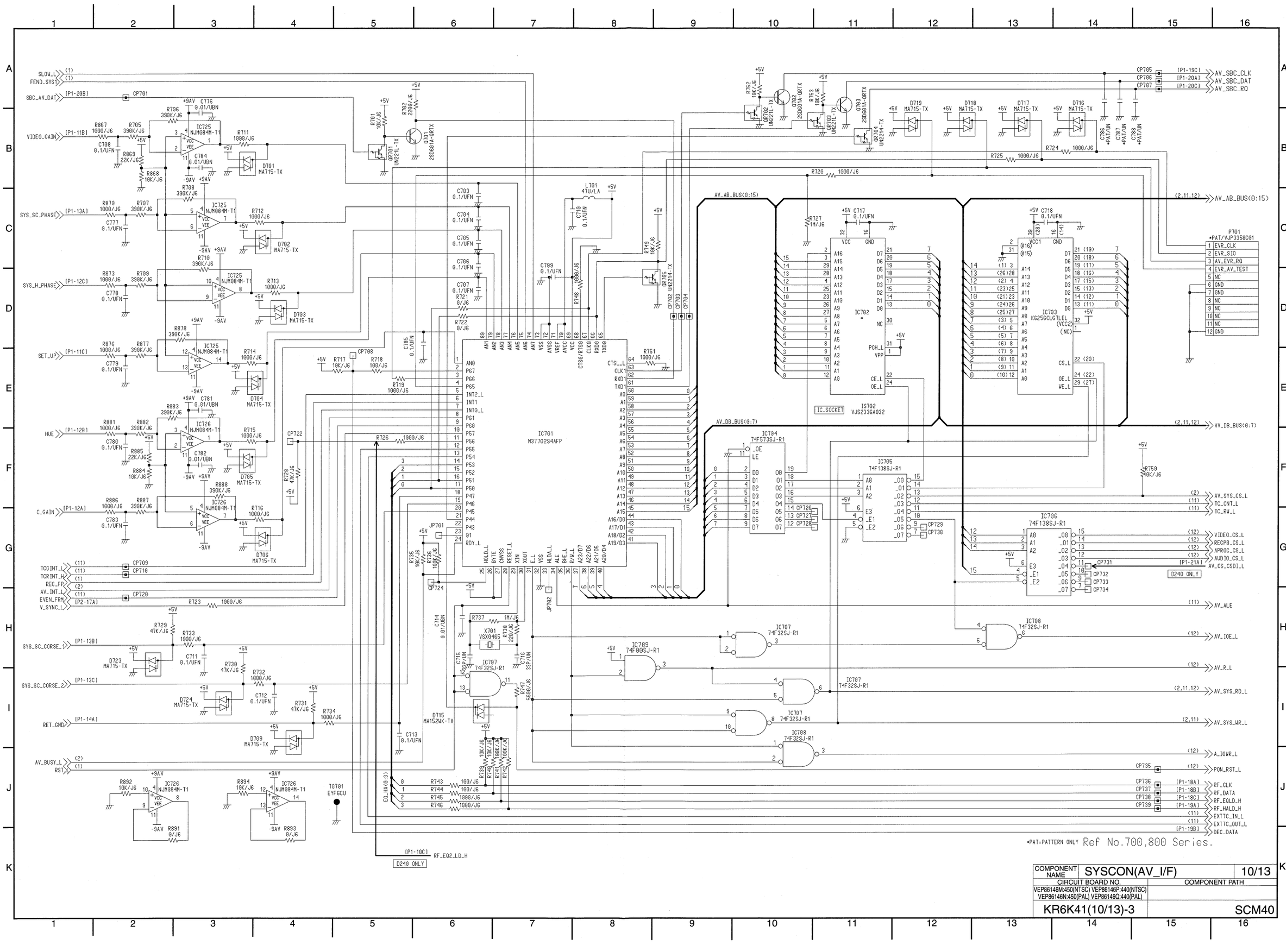

FR_SERI1A (13)
FR_SERI1B (13)
RECEIVE_A_OUT (13)
RECEIVE_B_OUT (13)
RECEIVE_A_IN_OUT (13)
RECEIVE_B_IN_OUT (13)
LOCAL1_H (9)
LOCAL2_H (9)
9P_REM_H (9)
9P_REM1_H (9)
9P_REM2_H (9)
9P_OUT_CON_H (9)
6.144MHZ (6)
DATA_BUS(0:7) (6)
LIR_L (6)
IF_RD_L (6)
IOE_L (6)
A0 (6)
A1 (6)
RST_L (1)
SIO_CS_L (6)
REC_FP (1)
OUT_FRM1 (1)
TXA0 (6)
DTR_L (9)
RS232C_PIN2 (13)
RS232C_PIN3 (13)
IC510
Z84C4310FEC
IC509
T74HC191AFT1
IC511
*(MC74HC126AFR)
IC512
*(MC74HC126AFR)
IC513
*(MC34051MR)
IC514
MC34051MR
IC515
MC1488M
IC516
MC1489AM-R
C514 0.1/UFN
C515 0.01/UBN
C516 0.1/UFN
C517 0.1/UFN
C518 0.1/UFN
C519 0.1/UFN
C520 *(0.01/UBN)
C521 *(0.01/UBN)
C522 *(0.01/UBN)
TP500 *PAT/EYF6CU
TP501 *PAT/EYF6CU
TP502 *PAT/EYF6CU
TP503 *PAT/EYF6CU
R512 47K/J6
R513 10K/J6
R514 10K/J6
R515 *(10K/J6)
R516 *(47K/J6)
R517 47K/J6
R518 4700/J6
R519 4700/J6
R520 100/J6
R521 *(47K/J6)
R523 *(4700/J6)
R524 *(4700/J6)
R525 *(47K/J6)
R527 *(100/J6)
R528 *(47K/J6)
R529 47K/J6
R530 100/J6
R531 47K/J6
R532 4700/J6
R533 4700/J6
R534 100/J6
R535 *(4700/J6)
R536 *(4700/J6)
R537 *(100/J6)
R538 *PAT/J6
R539 *PAT/J6
R588 *PAT/J6
R618 *PAT/J6
R619 *PAT/J6
R629 *(0/J6)
R630 *PAT/J6
R635 *PAT/J6
R636 *(0/J6)
R637 *(PAT/J6)
R638 *(0/J6)
R639 *(0/J6)
R640 *(PAT/J6)
R641 47K/J6
L500 VLQ0576T
L501 VLQ0576T
L502 VLQ0576T
L503 VLQ0576T
+5V
+7.5V
-7.5V
SIO_INT_L (6)
TRANSMIT_B_IN_OUT (13)
TRANSMIT_A_IN_OUT (13)
TRANSMIT_B_OUT (13)
TRANSMIT_A_OUT (13)
FR_SERIOB (13)
FR_SERIOA (13)
RS232C_PIN6 (13)
RS232C_PIN20 (13)
RS232C_PIN2 (13)
RS232C_PIN3 (13)
DSR_L (9)
RXA0 (6)
CROSS STRAIGHT
R637 *PAT 0/J6
R638 0/J6 *PAT
CROSS STRAIGHT
R639 0/J6 *PAT
R640 *PAT 0/J6
CROSS STRAIGHT
R635 *PAT 0/J6
R636 0/J6 *PAT
*PAT=PATTERN ONLY
Ref No.500 Series.
COMPONENT NAME SYSCON(I/F) 07/13
CIRCUIT BOARD NO. COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC)
VEP86146N:450(PAL) VEP86146Q:440(PAL)
KR6K41(7/13)-2 SCM37



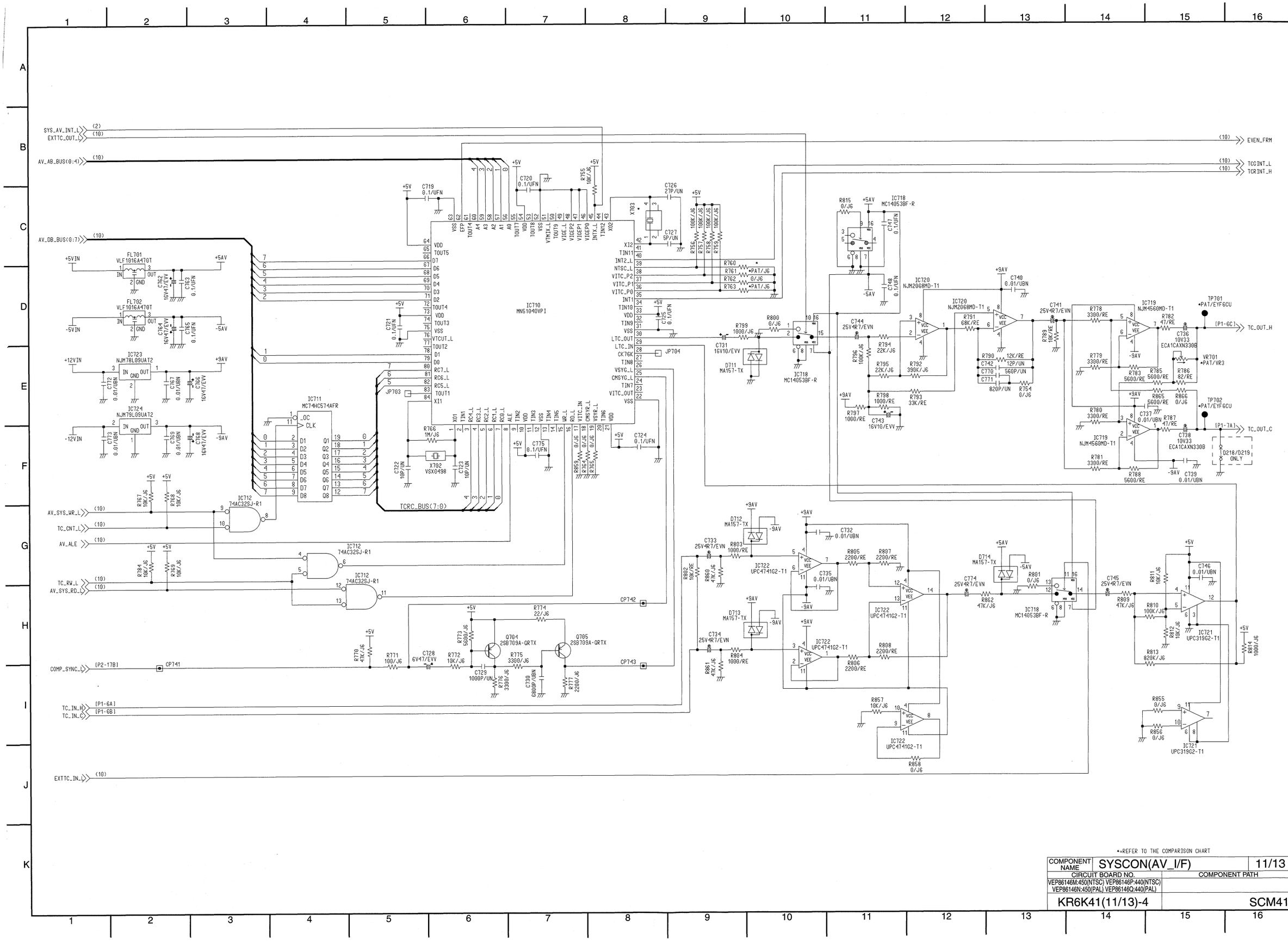
Ref No.500 Series.

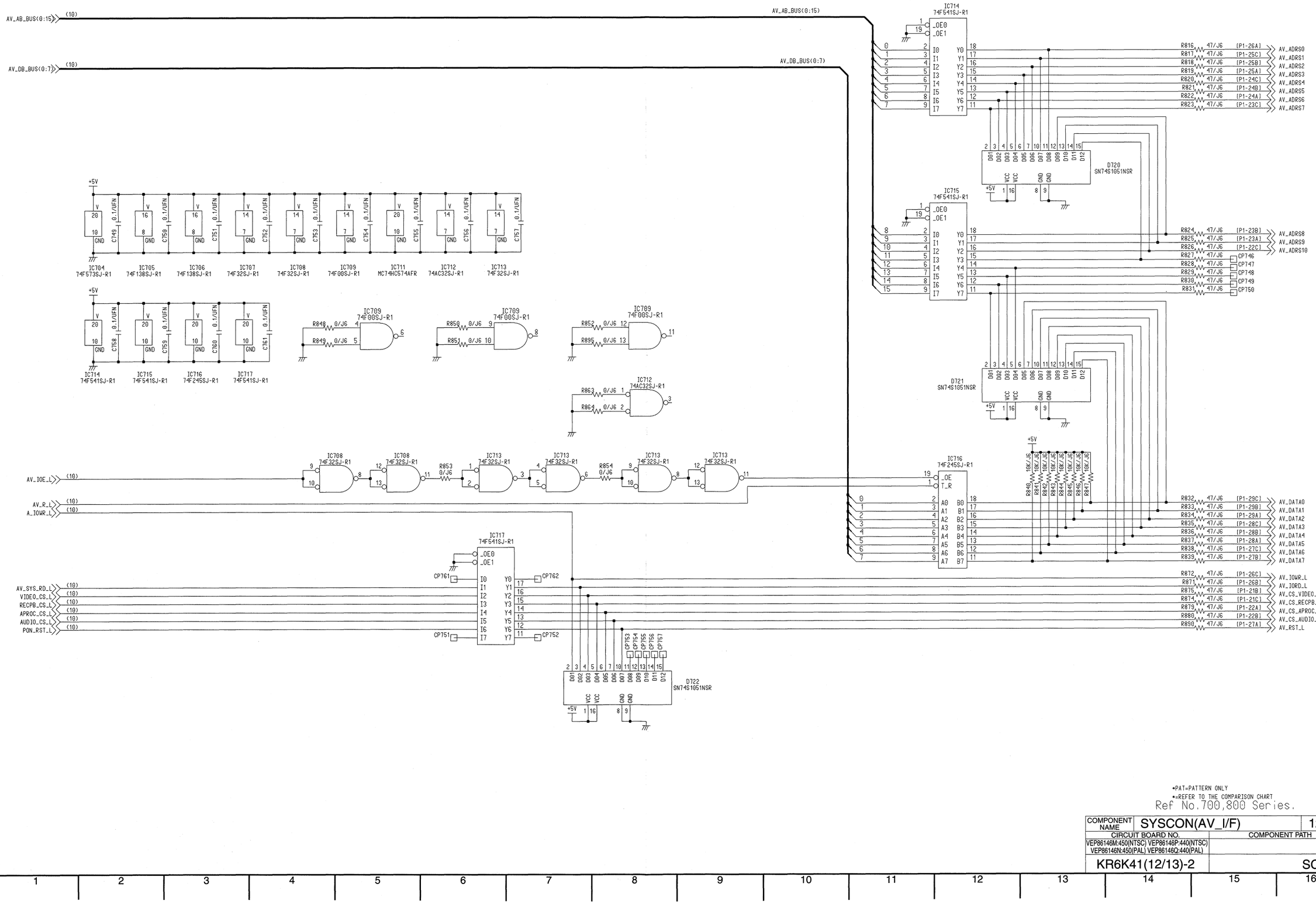
COMPONENT NAME	SYSCON(I/F)	08/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(8/13)-2		SCM38


STB16_H
OUT_SCLK
IF_INT_L
DSR_L
FEND_SYS1
V_IN_SEL_SW_L
A_IN_SEL_SW_L
EJECT_L
SLOW_L
TAPE_REV_H
PB0(0:7)
PB1(0:7)
PB2(0:7)
PB3(0:7)
PB4(0:6)
R548 47K/J6
R549 47K/J6
R550 10K/J6
R551 10K/J6
R554 10K/J6
D504 MA715-TX
D505 MA715-TX
C537 0.1/UFN
C538 0.1/UFN
C548 0.1/UFN
IC13 MC74HC74AF-R
CTL_PLS
6.144MHZ
IC530 T74HC191AFT1
IC531 T74HC191AFT1
IC532 MC74HC574AFR
IC527 MB89363BPF
IC523 MC74HC04AF-R
R688 220Ω/J6
AD
A1
IORD_L
IOWR_L
PORTB_CS1_L
PORTB_CS2_L
RST_L
DATA_BUS(0:7)
RSLCT0
RSLCT1
RD
WR
CS1
CS2
RST
NC
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
C547 0.01/UBN
C543 0.01/UBN
C544 0.01/UBN
C545 0.01/UBN
IF_DIPSW(0:7)
EJECT_LED_H
AUTO_OFF_LED_H
IC528 MC14021BF-R
IC529 MC14021BF-R
CMPNT_LED
CMPSIT_LED
SER_CMPNT_LED
ANALOG_LED
AES_EBU_LED
USER_SET_LED
SERIAL_LED
YC_LED
CH_COND1_LED
CH_COND2_LED
CH_COND3_LED
FRONT_SPARE1
FRONT_SPARE2
FRONT_SPARE3
AUTO_OFF_LED
EJECT_LED
R633 *PAT/J6
R634 *(0/J6)
R590 *(47K/J6)
R591 *(47K/J6)
R592 *(47K/J6)
R593 *(47K/J6)
R594 *(47K/J6)
R609 *(47K/J6)
DTR_L
LOCAL1_H
9P_REM_H
9P_REM1_H
9P_REM2_H
LOCAL2_H
9P_OUT_CON_H
C549 0.01/UBN
C550 0.01/UBN
IC524 MC14050BF-R
D507 MA715-TX
R598 100/J6
U_FRONT_DATA
D506 MA152WK-TX
R599 10K/J6
R631 *PAT/J6
R632 *PAT/J6
IC508 MC74HC00AF-R
INT_REF_L
INT_REF_PULSE
R588 47K/J6
R621 *PAT/J6
R622 *PAT/J6
R623 *PAT/J6
R624 *PAT/J6
R625 *PAT/J6
R626 *PAT/J6
R627 *PAT/J6
R628 *PAT/J6
Ref No.500 Series.
COMPONENT NAME
SYSCON(I/F)
09/13
CIRCUIT BOARD NO.
COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC)
VEP86146N:450(PAL) VEP86146Q:440(PAL)
KR6K41(9/13)-2
SCM39



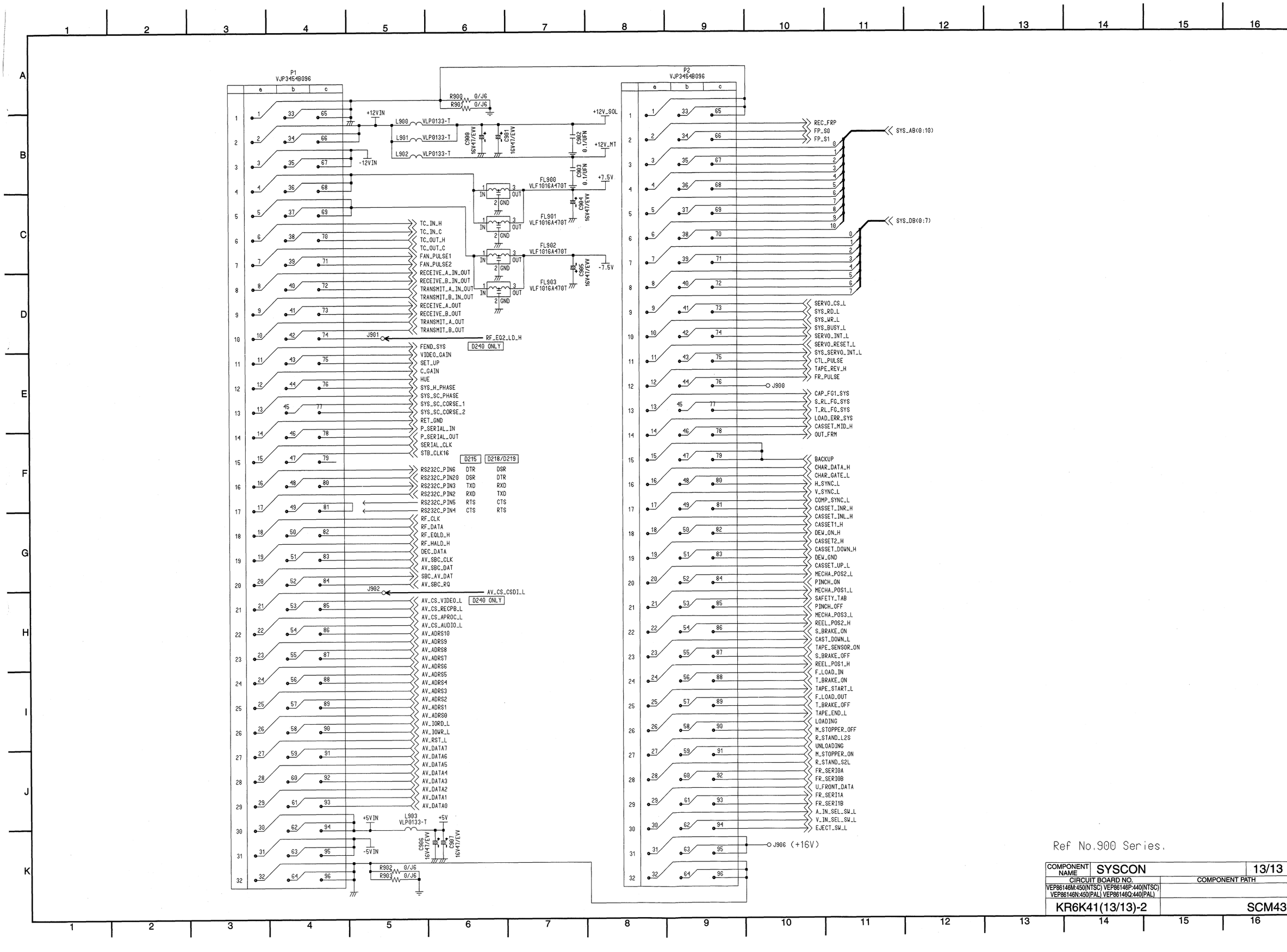
COMPONENT NAME	SYSCON(AV_I/F)	10/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146N:450(PAL)	VEP86146P:440(NTSC) VEP86146Q:440(PAL)	
KR6K41(10/13)-3		SCM40

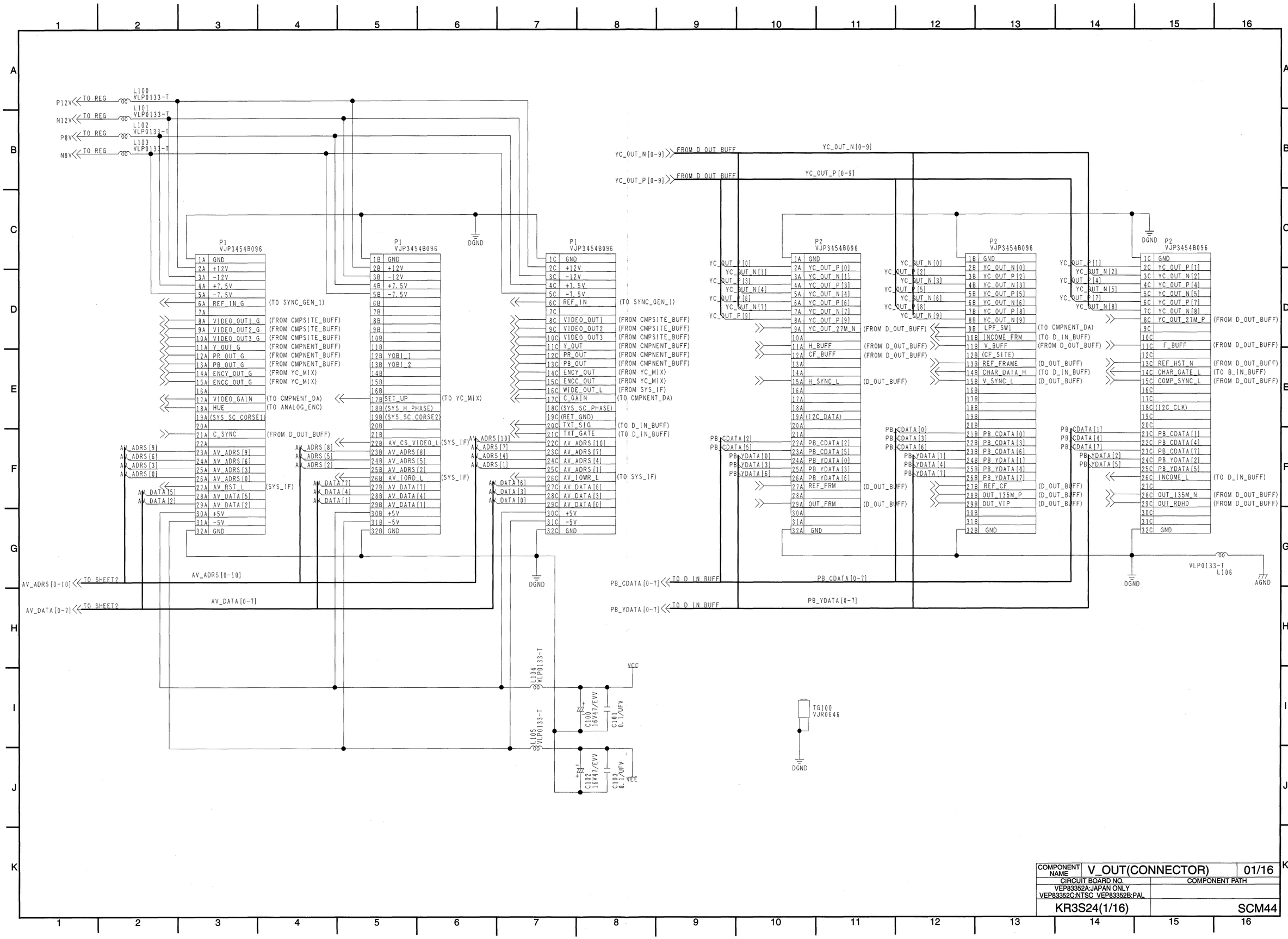

SYS_AV_INT_L
EXTTC_OUT_L
AV_AB_BUS(0:4)
AV_DB_BUS(0:7)
EVEN_FRM
TCCINT_L
TCRINT_H
IC710
MN51040VP1
IC711
MC74HC574AFR
IC712
74AC32SJ-R1
IC718
MC14053BF-R
IC719
NJM4560MD-T1
IC720
NJM2068MD-T1
IC721
UPC319G2-T1
IC722
UPC4741G2-T1
IC723
NJM78L09UAT2
IC724
NJM79L09UAT2
X702
VSX0498
X703
JP703
JP704
TCRC_BUS(7:0)
AV_SYS_WR_L
TC_CNT_L
AV_ALE
TC_RW_L
AV_SYS_RD_L
COMP_SYNC_
TC_IN_H
TC_IN_L
EXTTC_IN_
TC_OUT_H
TC_OUT_C
Q704
2SB709A-QRTX
Q705
2SB709A-QRTX
D711
MA157-TX
D712
MA157-TX
D713
MA157-TX
D714
MA157-TX
TP701
TP702
D218/D219
ONLY
*=REFER TO THE COMPARISON CHART
COMPONENT NAME
SYSCON(AV_I/F)
11/13
CIRCUIT BOARD NO.
COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC)
VEP86146N:450(PAL) VEP86146Q:440(PAL)
KR6K41(11/13)-4
SCM41



*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART.
Ref No.700,800 Series.

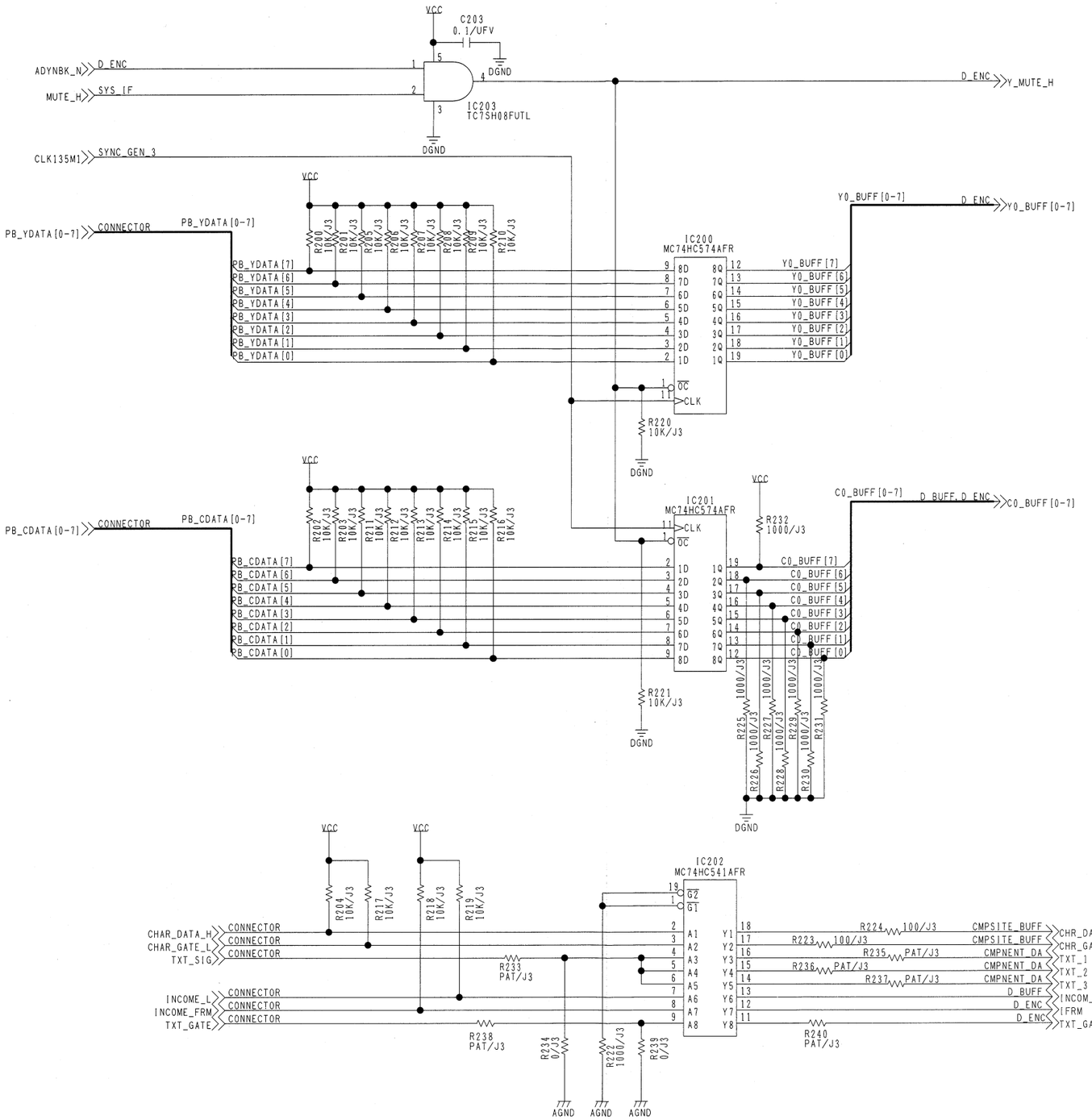
COMPONENT NAME	SYSCON(AV_I/F)	12/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(12/13)-2		SCM42


P1
VJP3454B096
P2
VJP3454B096
R900 0/J6
R901 0/J6
+12VIN
-12VIN
L900 VLP0133-T
L901 VLP0133-T
L902 VLP0133-T
C900 16V47/EVW
C901 16V47/EVW
C902 0.1/UFN
C903 0.1/UFN
C904 16V47/EVW
C905 16V47/EVW
+12V_SOL
+12V_MT
+7.5V
-7.5V
FL900 VLF1016A470T
FL901 VLF1016A470T
FL902 VLF1016A470T
FL903 VLF1016A470T
IN
OUT
GND
TC_IN_H
TC_IN_C
TC_OUT_H
TC_OUT_C
FAN_PULSE1
FAN_PULSE2
RECEIVE_A_IN_OUT
RECEIVE_B_IN_OUT
TRANSMIT_A_IN_OUT
TRANSMIT_B_IN_OUT
RECEIVE_A_OUT
RECEIVE_B_OUT
TRANSMIT_A_OUT
TRANSMIT_B_OUT
J901
RF_EQ2_LD_H
D240 ONLY
FEND_SYS
VIDEO_GAIN
SET_UP
C_GAIN
HUE
SYS_H_PHASE
SYS_SC_PHASE
SYS_SC_CORSE_1
SYS_SC_CORSE_2
RET_GND
P_SERIAL_IN
P_SERIAL_OUT
SERIAL_CLK
STB_CLK16
D215 D218/D219
RS232C_PIN6 DTR DSR
RS232C_PIN20 DSR DTR
RS232C_PIN3 TXD RXD
RS232C_PIN2 RXD TXD
RS232C_PIN5 RTS CTS
RS232C_PIN4 CTS RTS
RF_CLK
RF_DATA
RF_EQLD_H
RF_HALD_H
DEC_DATA
AV_SBC_CLK
AV_SBC_DAT
SBC_AV_DAT
AV_SBC_RQ
J902
AV_CS_CSDI_L
AV_CS_VIDEO_L
D240 ONLY
AV_CS_RECPB_L
AV_CS_APROC_L
AV_CS_AUDIO_L
AV_ADRS10
AV_ADRS9
AV_ADRS8
AV_ADRS7
AV_ADRS6
AV_ADRS5
AV_ADRS4
AV_ADRS3
AV_ADRS2
AV_ADRS1
AV_ADRS0
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_DATA7
AV_DATA6
AV_DATA5
AV_DATA4
AV_DATA3
AV_DATA2
AV_DATA1
AV_DATA0
+5VIN
-5VIN
L903 VLP0133-T
+5V
C906 16V47/EVW
C907 16V47/EVW
R902 0/J6
R903 0/J6
REC_FRP
FP_S0
FP_S1
SYS_AB(0:10)
SYS_DB(0:7)
SERVO_CS_L
SYS_RD_L
SYS_WR_L
SYS_BUSY_L
SERVO_INT_L
SERVO_RESET_L
SYS_SERVO_INT_L
CTL_PULSE
TAPE_REV_H
FR_PULSE
J900
CAP_FG1_SYS
S_RL_FG_SYS
T_RL_FG_SYS
LOAD_ERR_SYS
CASSET_MID_H
OUT_FRM
BACKUP
CHAR_DATA_H
CHAR_GATE_L
H_SYNC_L
V_SYNC_L
COMP_SYNC_L
CASSET_INR_H
CASSET_INL_H
CASSET1_H
DEW_ON_H
CASSET2_H
CASSET_DOWN_H
DEW_GND
CASSET_UP_L
MECHA_POS2_L
PINCH_ON
MECHA_POS1_L
SAFETY_TAB
PINCH_OFF
MECHA_POS3_L
REEL_POS2_H
S_BRAKE_ON
CAST_DOWN_L
TAPE_SENSOR_ON
S_BRAKE_OFF
REEL_POS1_H
F_LOAD_IN
T_BRAKE_ON
TAPE_START_L
F_LOAD_OUT
T_BRAKE_OFF
TAPE_END_L
LOADING
M_STOPPER_OFF
R_STAND_L2S
UNLOADING
M_STOPPER_ON
R_STAND_S2L
FR_SERI0A
FR_SERI0B
U_FRONT_DATA
FR_SERI1A
FR_SERI1B
A_IN_SEL_SW_L
V_IN_SEL_SW_L
EJECT_SW_L
J906 (+16V)
Ref No.900 Series.
COMPONENT NAME
SYSCON
13/13
CIRCUIT BOARD NO.
COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC)
VEP86146N:450(PAL) VEP86146Q:440(PAL)
KR6K41(13/13)-2
SCM43



COMPONENT NAME	V_OUT(CONNECTOR) 01/16
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	
KR3S24(1/16)	SCM44

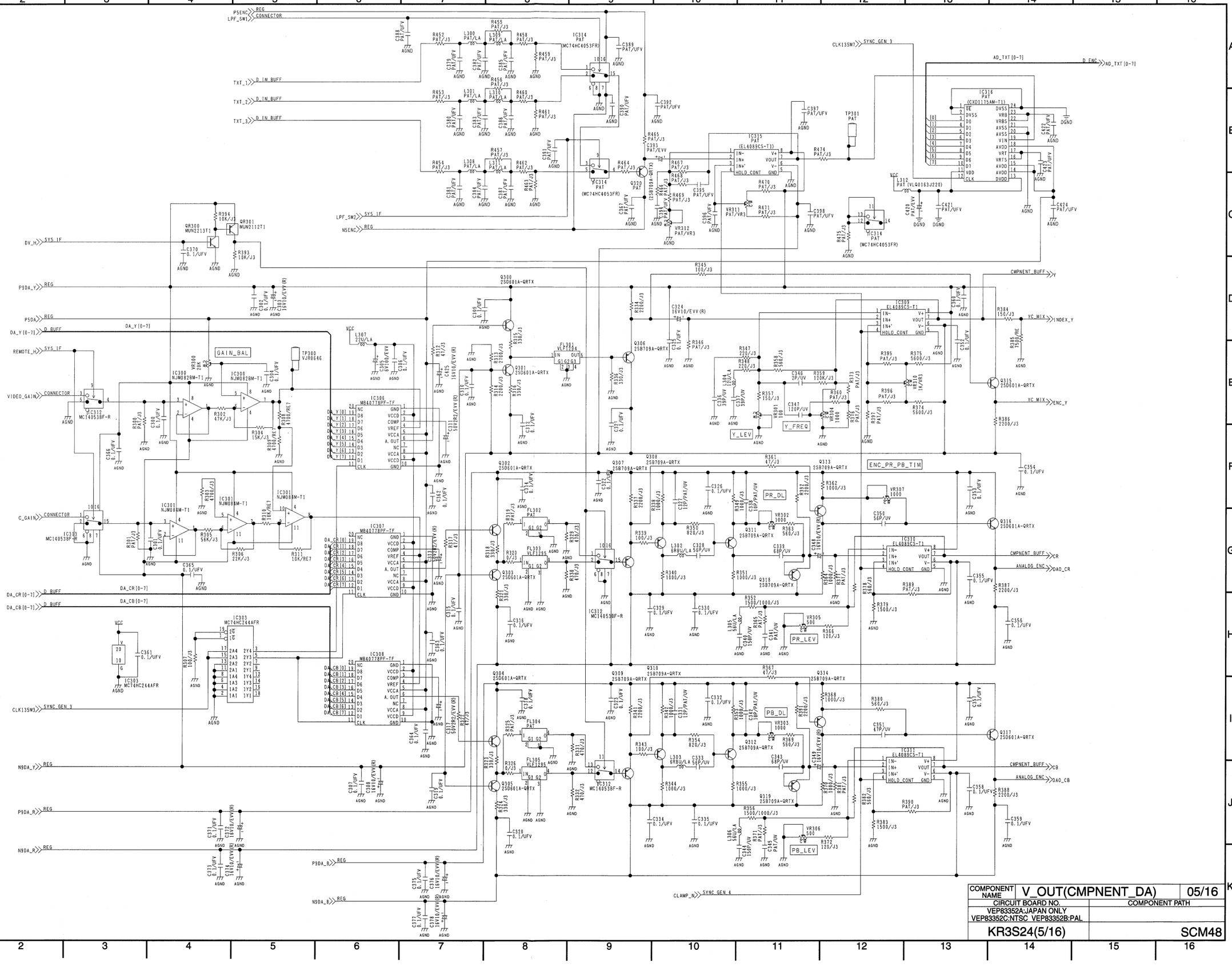
COMPONENT NAME	V_OUT(SYS_IF)	02/16
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(2/16)		SCM45



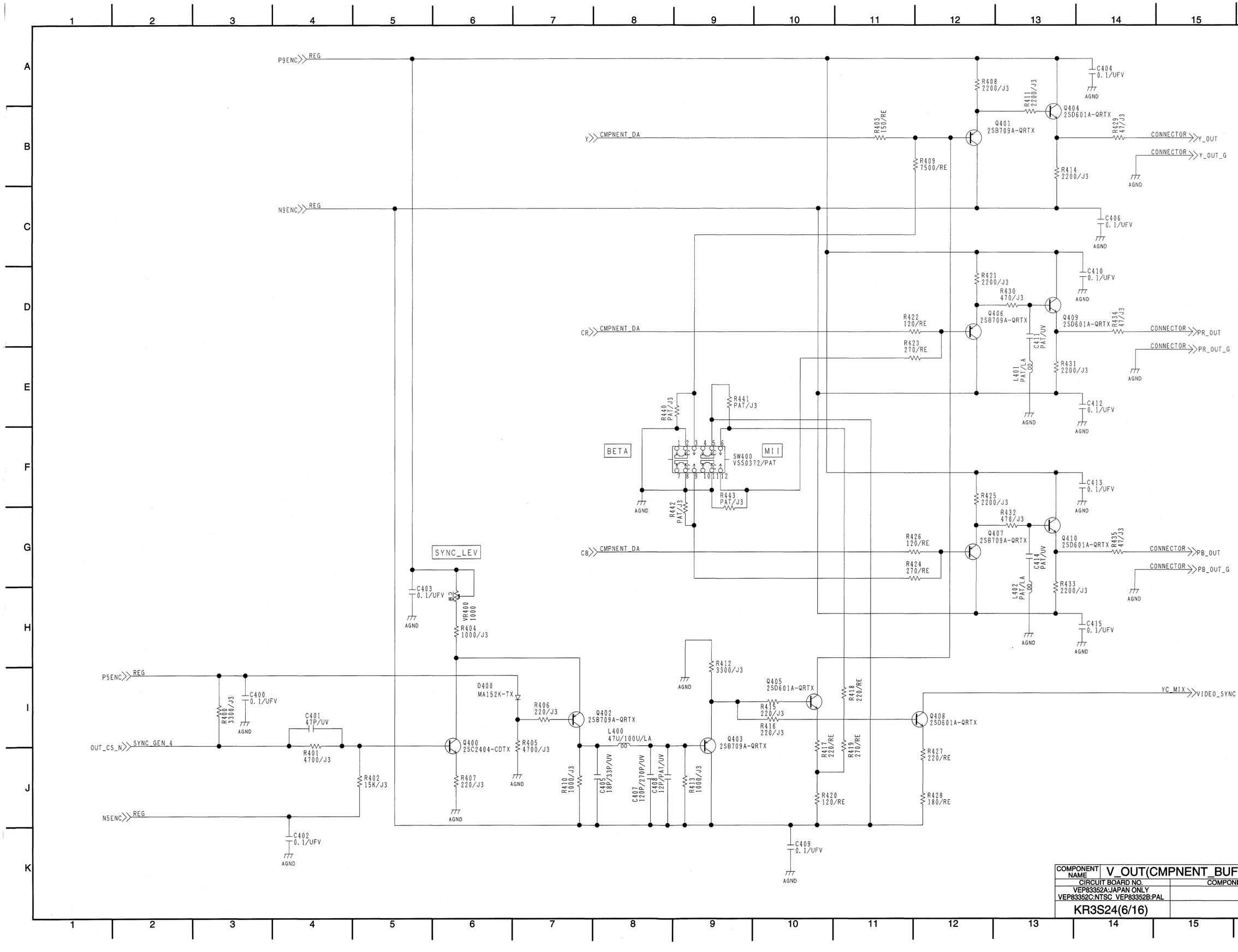
COMPONENT NAME	V_OUT(D_IN_BUFF)	03/16
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(3/16)		SCM46

IC250
XC62AP3002PL
C250 0.1/UFV
C252 16V10/EVV(R)
C256 0.1/UFV
VCC
DGND
VFLOAT_H
RFRM
HD
VP
CLK135M2
SYS_IF
SYNC_GEN_4
SYNC_GEN_3
O_BUF_SIG[4]
O_BUF_SIG[3]
O_BUF_SIG[2]
O_BUF_SIG[1]
O_BUF_SIG[0]
R250 PAT/10K/J3
R251 10K/PAT/J3
R252 68/J3
R253 1000/J3
R254 0/J3
R259 PAT/J3
R260 10K/J3
R261 PAT/J3
R262 10K/J3
R263 PAT/10K/J3
R264 10K/PAT/J3
C258 150P/UV
R267 10K/J3
R268 10K/J3
R269 10K/J3
IC252
PAT
(UPD485505G25)
C259 PAT/UFV
D_BUS_1[0-7]
IC254
74F244SJ-R1
C261 0.1/UFV
IC255
PAT (74F244SJ-R1)
C262 PAT/UFV
DELAY_Y[0-7]
D_ENC
CLK135M5
HST_N
SITE_H
R277 PAT/J3
R276 100/J3
R278 PAT/J3
IC1108
MC74HC04AF-R
IC253
PAT
(UPD485505G25)
C260 PAT/UFV
D_BUS_2[0-7]
IC256
74F244SJ-R1
C263 0.1/UFV
CO_BUFF[0-7]
D_IN_BUFF
IC257
PAT (74F244SJ-R1)
C264 PAT/UFV
D_BUS_3[0-7]
D_BUS_4[0-7]
IC251
UPD65840G024
DA_Y[0-7]
DA_CB[0-7]
DA_CR[0-7]
R265 PAT/J3
R266 10K/J3
CMPNENT_DA
C265 0.1/UFV
C266 PAT/UFV
C267 0.1/UFV
C268 PAT/UFV
INCOM_L
RDHD
SYNC_GEN_4
C251 0.1/UFV
C253 0.1/UFV
C254 0.1/UFV
C255 0.1/UFV
C257 0.1/UFV
R255 10K/J3
R256 PAT/J3
R257 PAT/J3
R258 10K/J3
R270 10K/J3
R271 PAT/J3
R272 PAT/J3
R273 10K/J3
R274 10K/J3
R275 PAT/J3

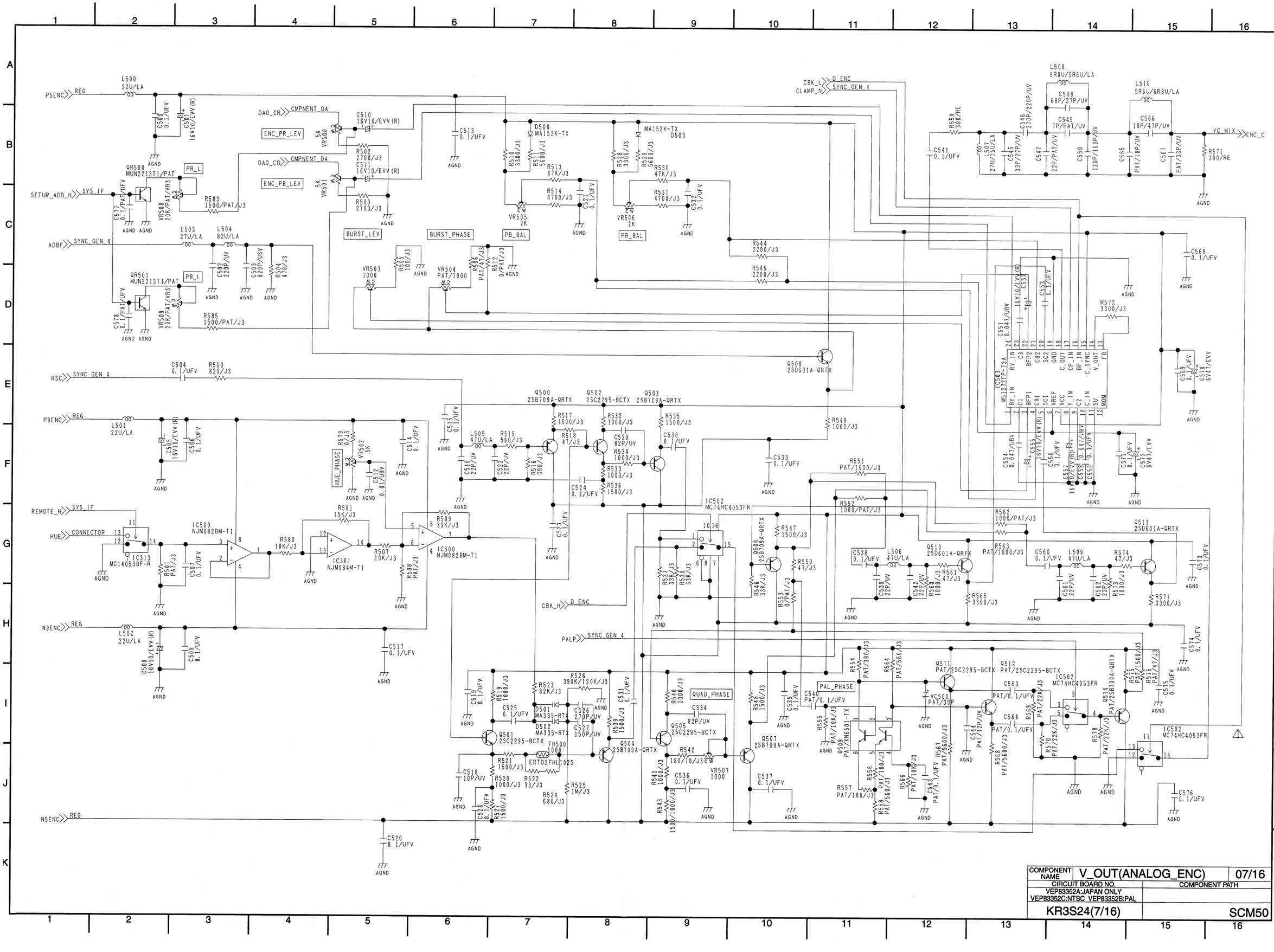
COMPONENT NAME	V_OUT(B_BUFF)	04/16
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(4/16)		SCM47



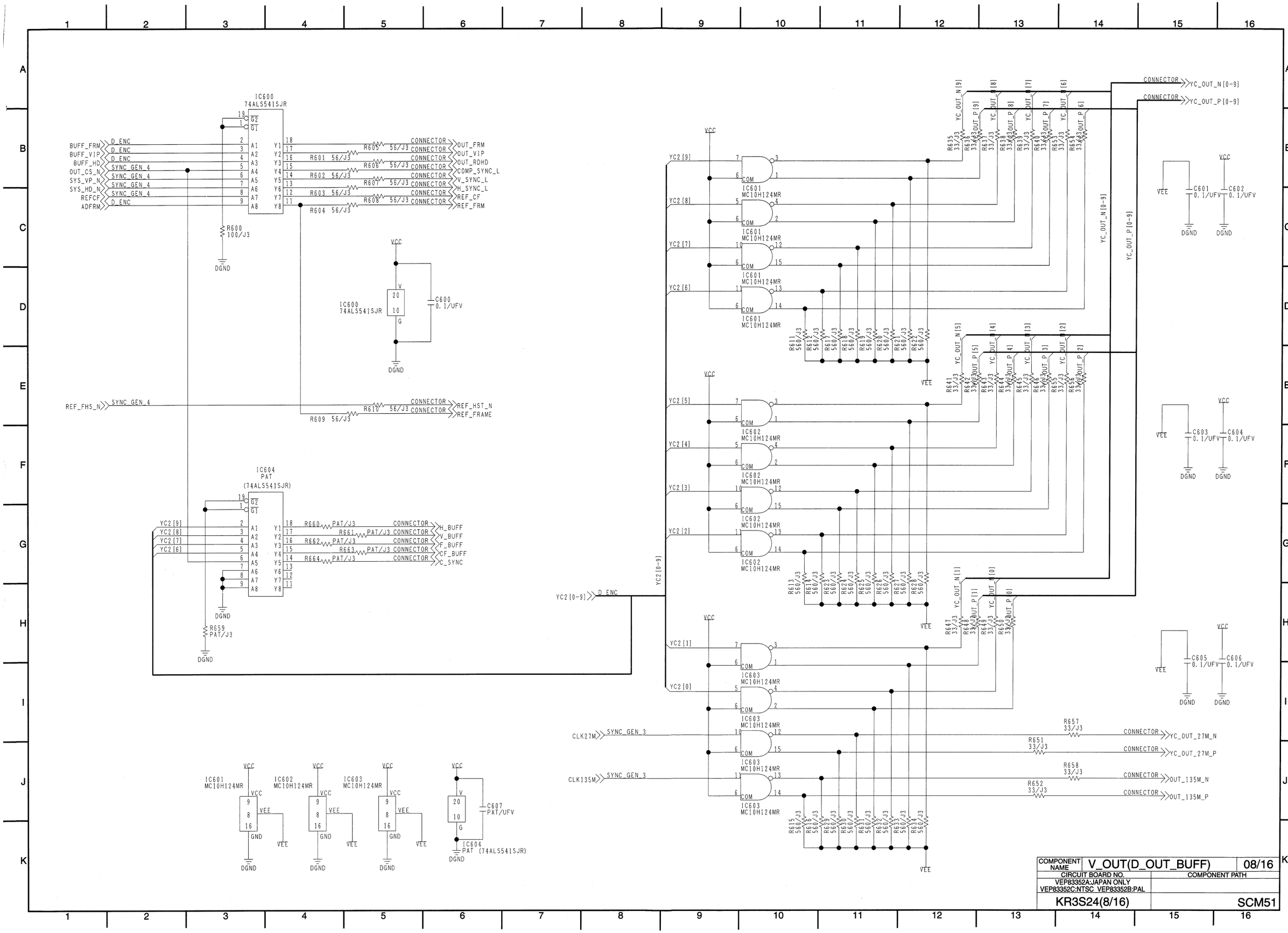
COMPONENT NAME	V_OUT(CMPNENT_DA) 05/16
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	
KR3S24(5/16)	SCM48



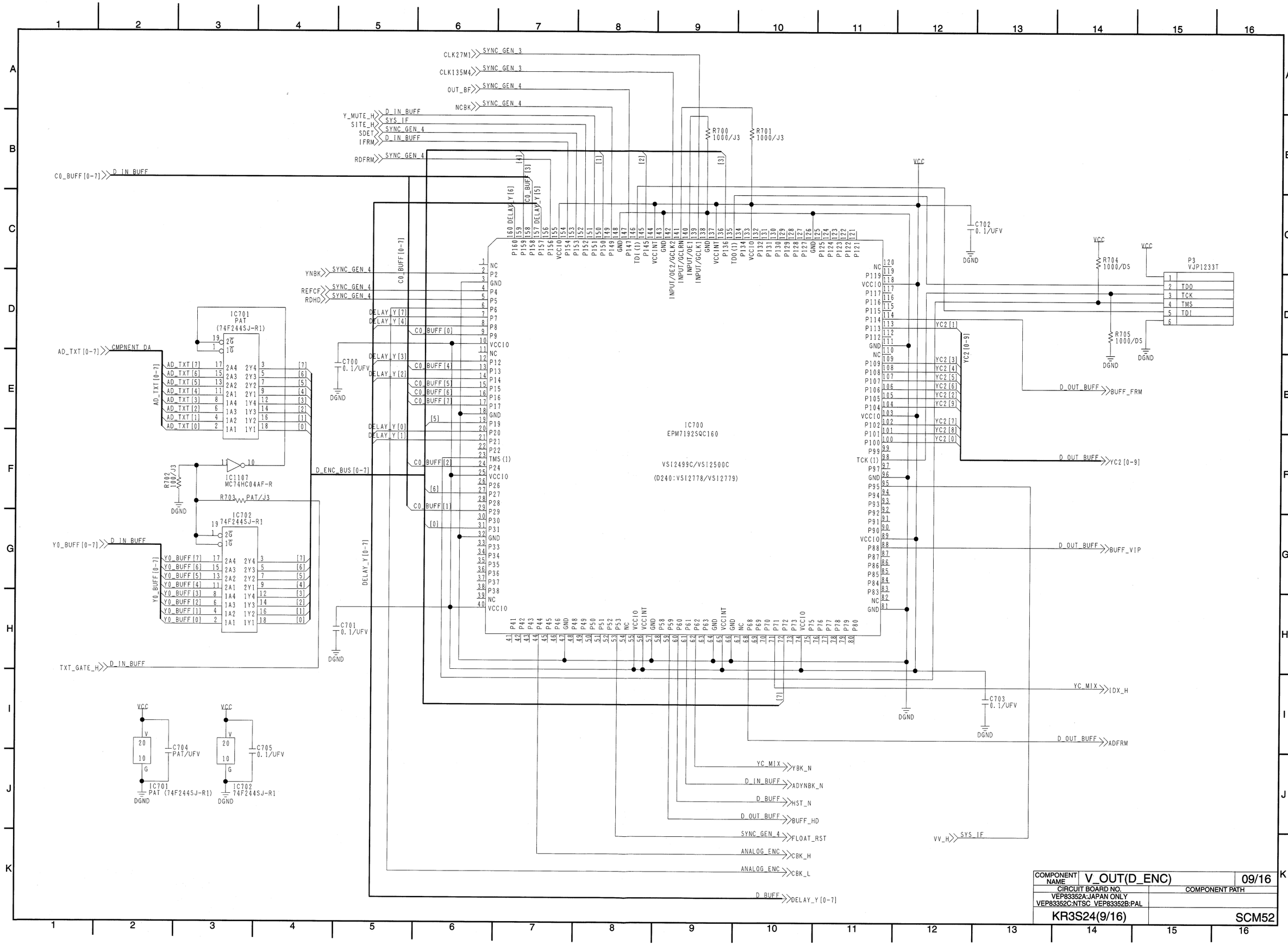
COMPONENT NAME	V_OUT(CMPNENT_BUFF)	06/16
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(6/16)		SCM49



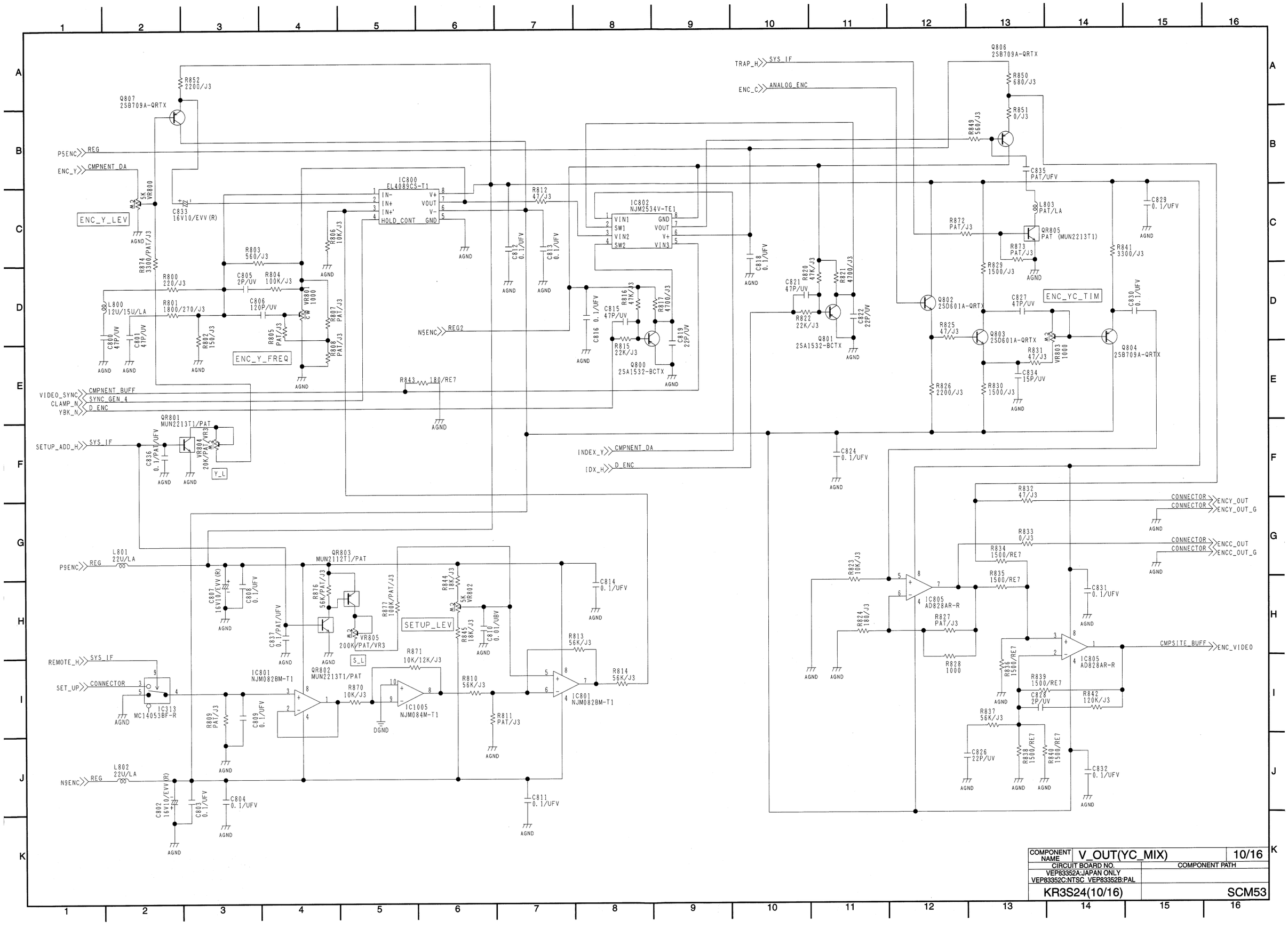
COMPONENT NAME	V_OUT(ANALOG_ENC)	07/16
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(7/16)		SCM50



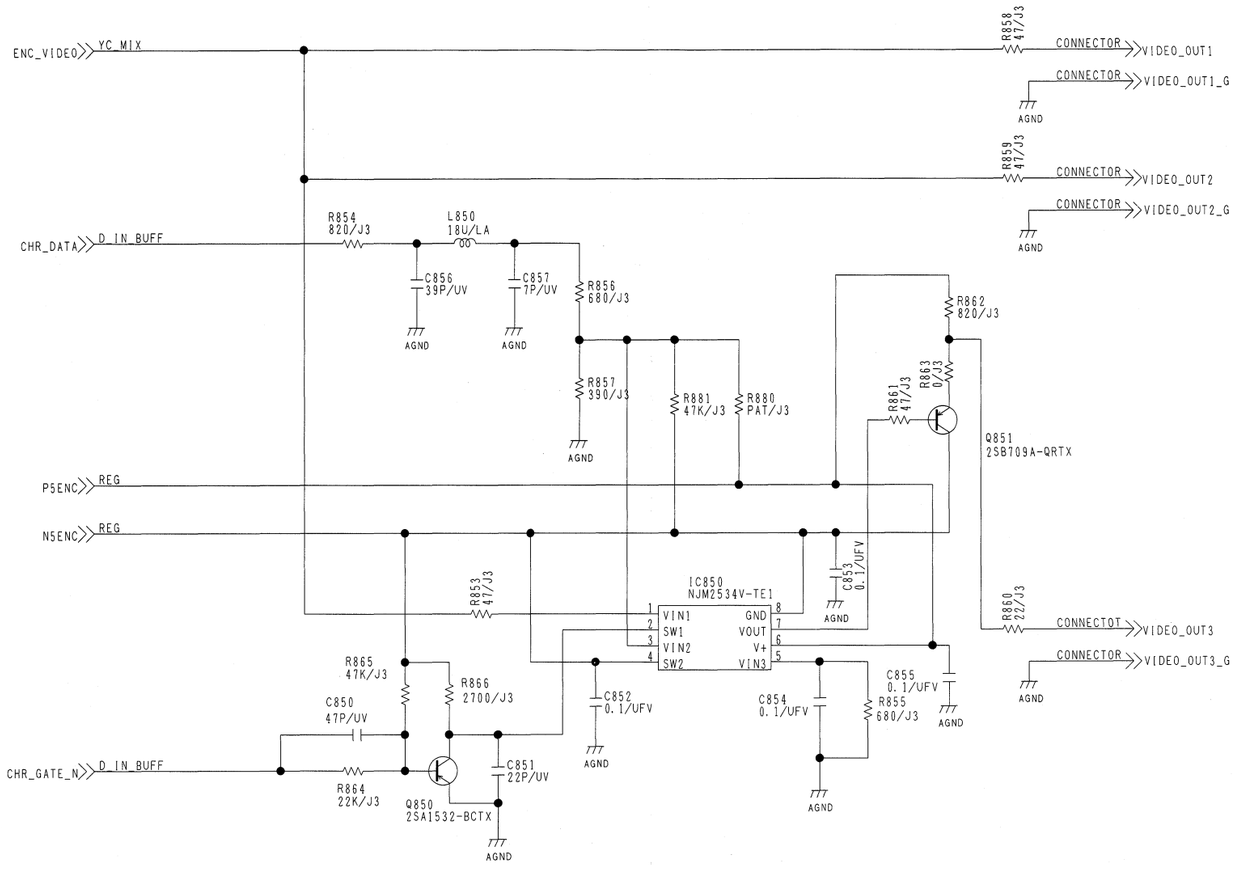
COMPONENT NAME	V_OUT(D_OUT_BUFF)	08/16
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(8/16)		SCM51



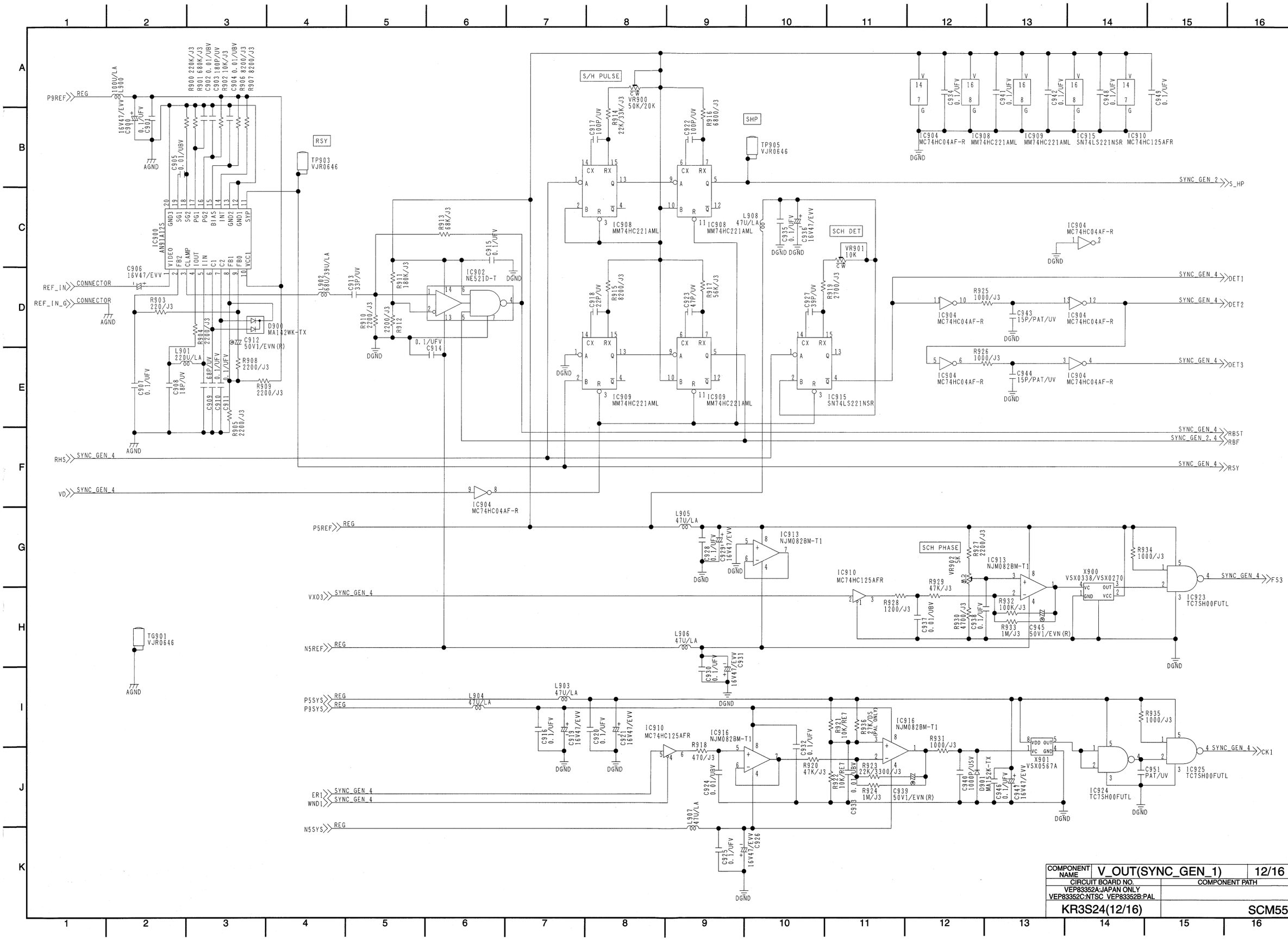
COMPONENT NAME	V_OUT(D_ENC)	09/16
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(9/16)		SCM52



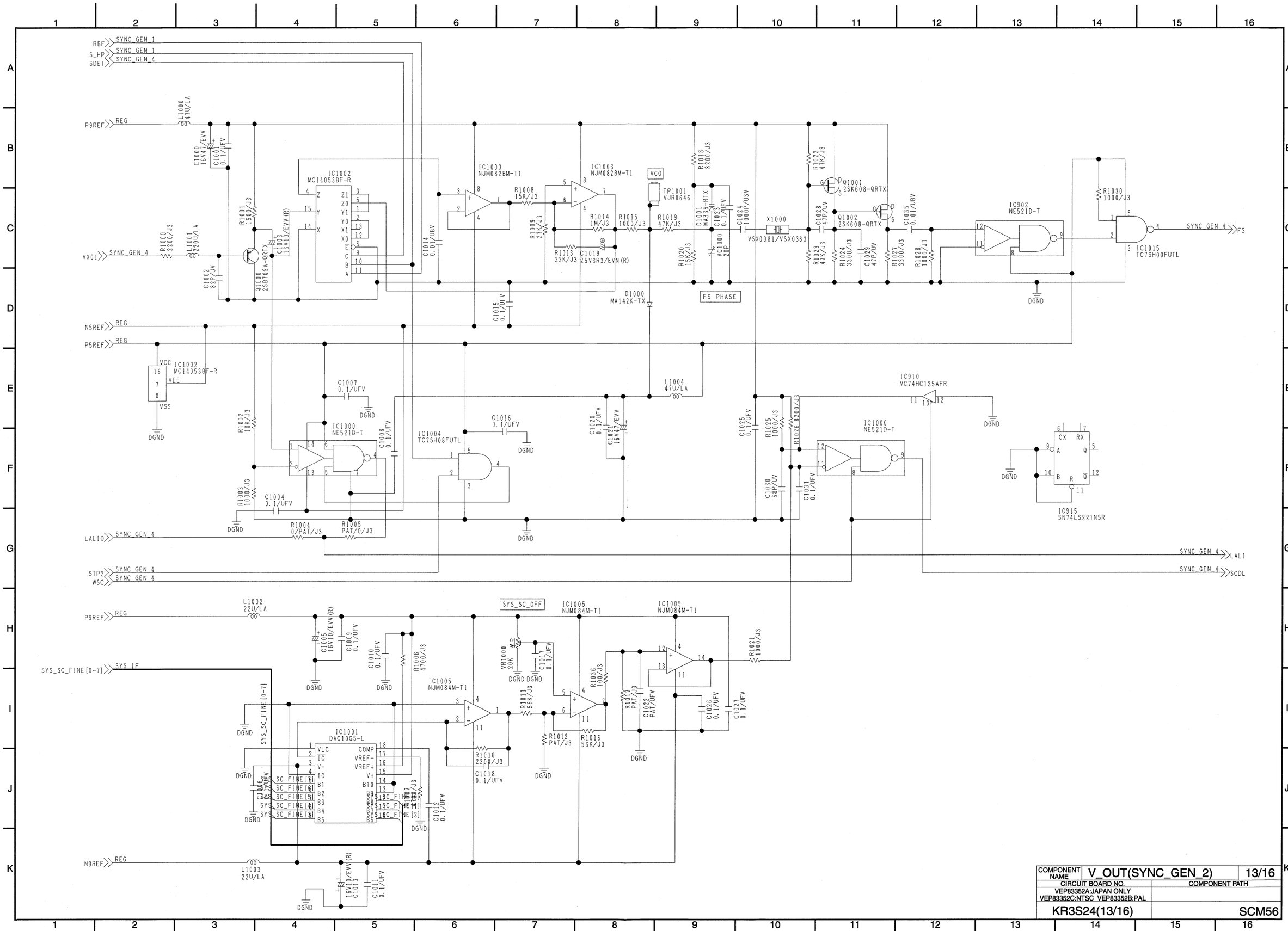
COMPONENT NAME	V_OUT(YC_MIX)	10/16
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(10/16)		SCM53



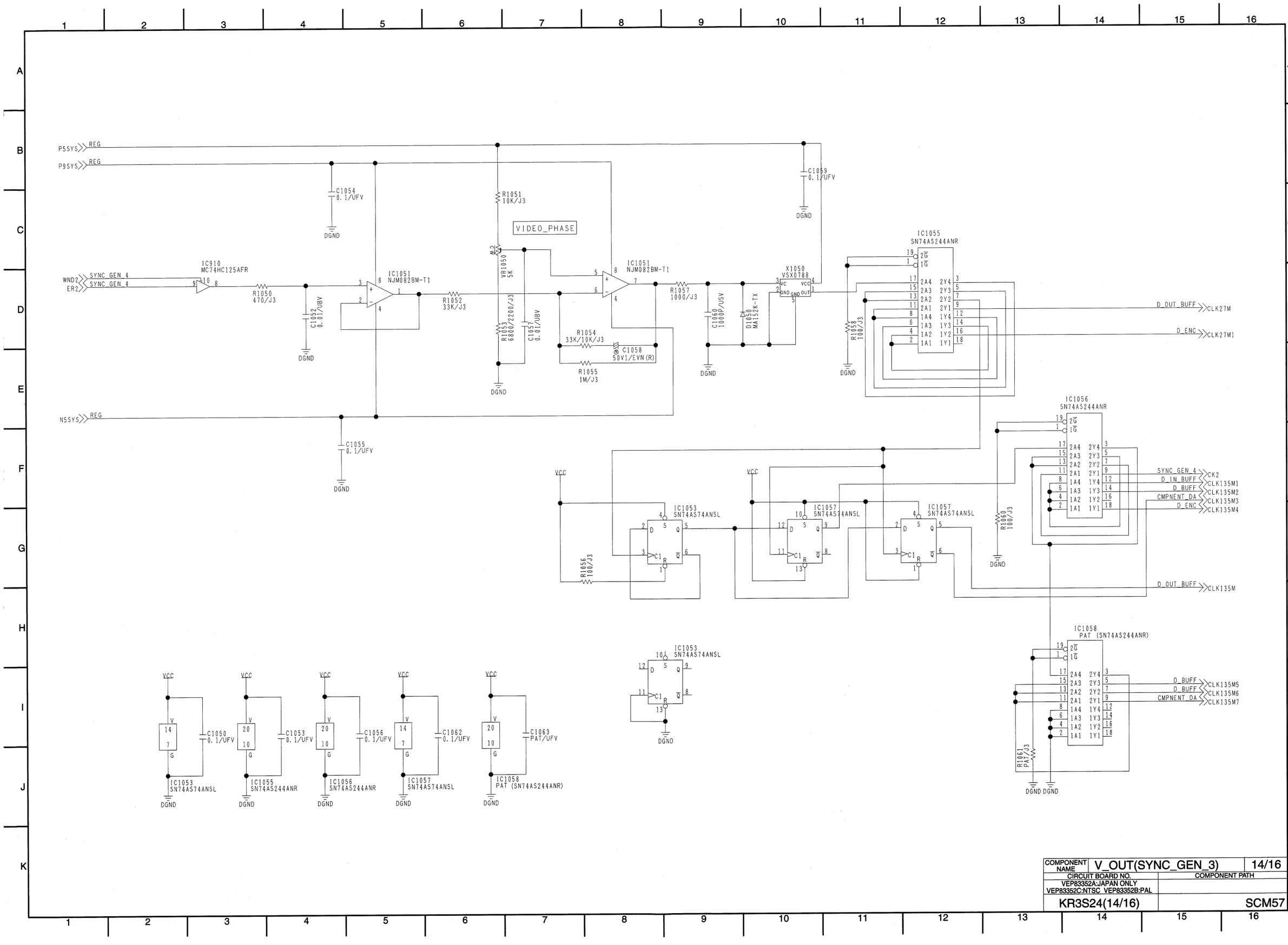
COMPONENT NAME	V_OUT(COMPSITE_BUFF) 11/16
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	
KR3S24(11/16)	SCM54



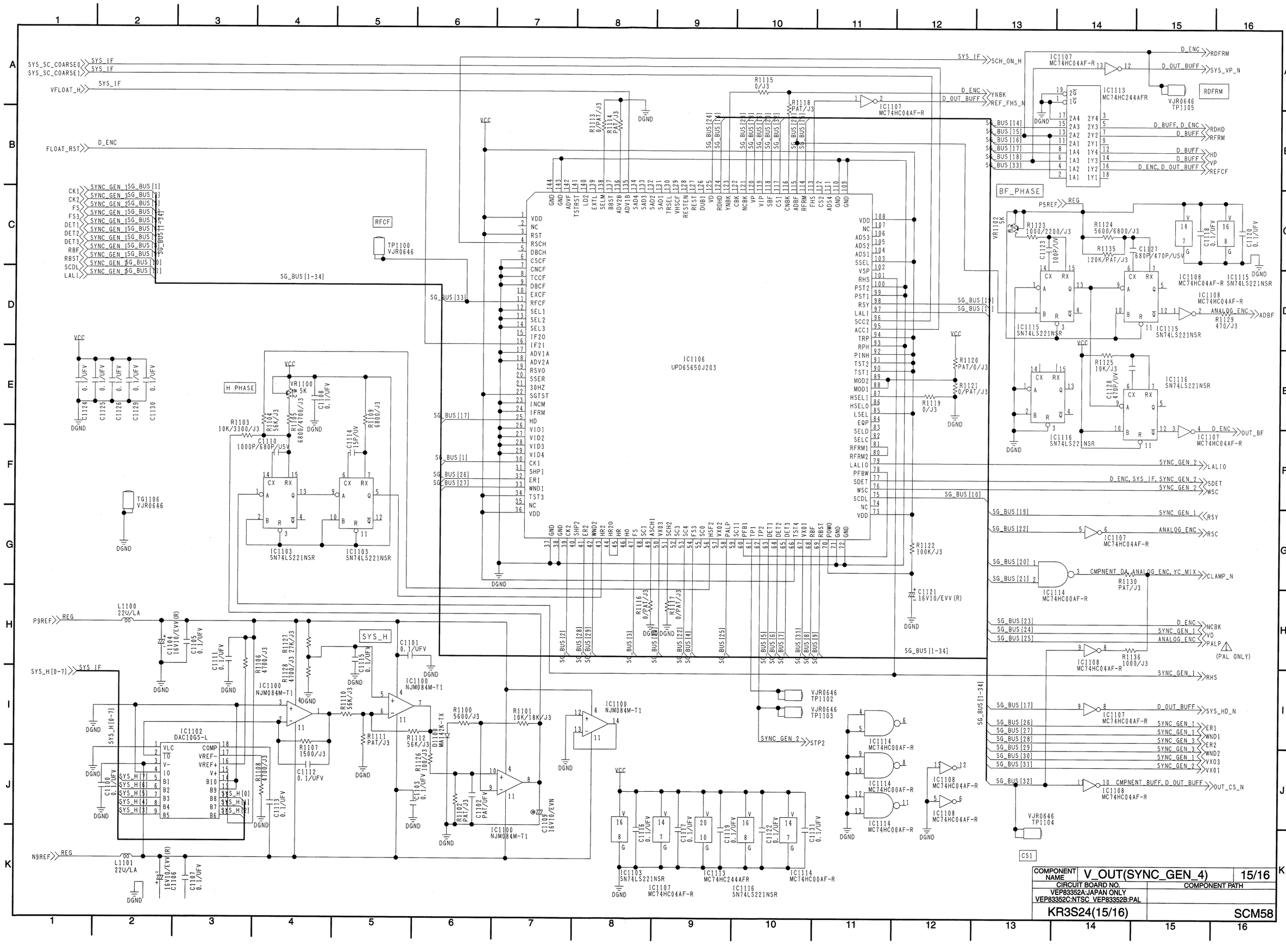
COMPONENT NAME	V_OUT(SYNC_GEN_1) 12/16
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	
KR3S24(12/16)	SCM55

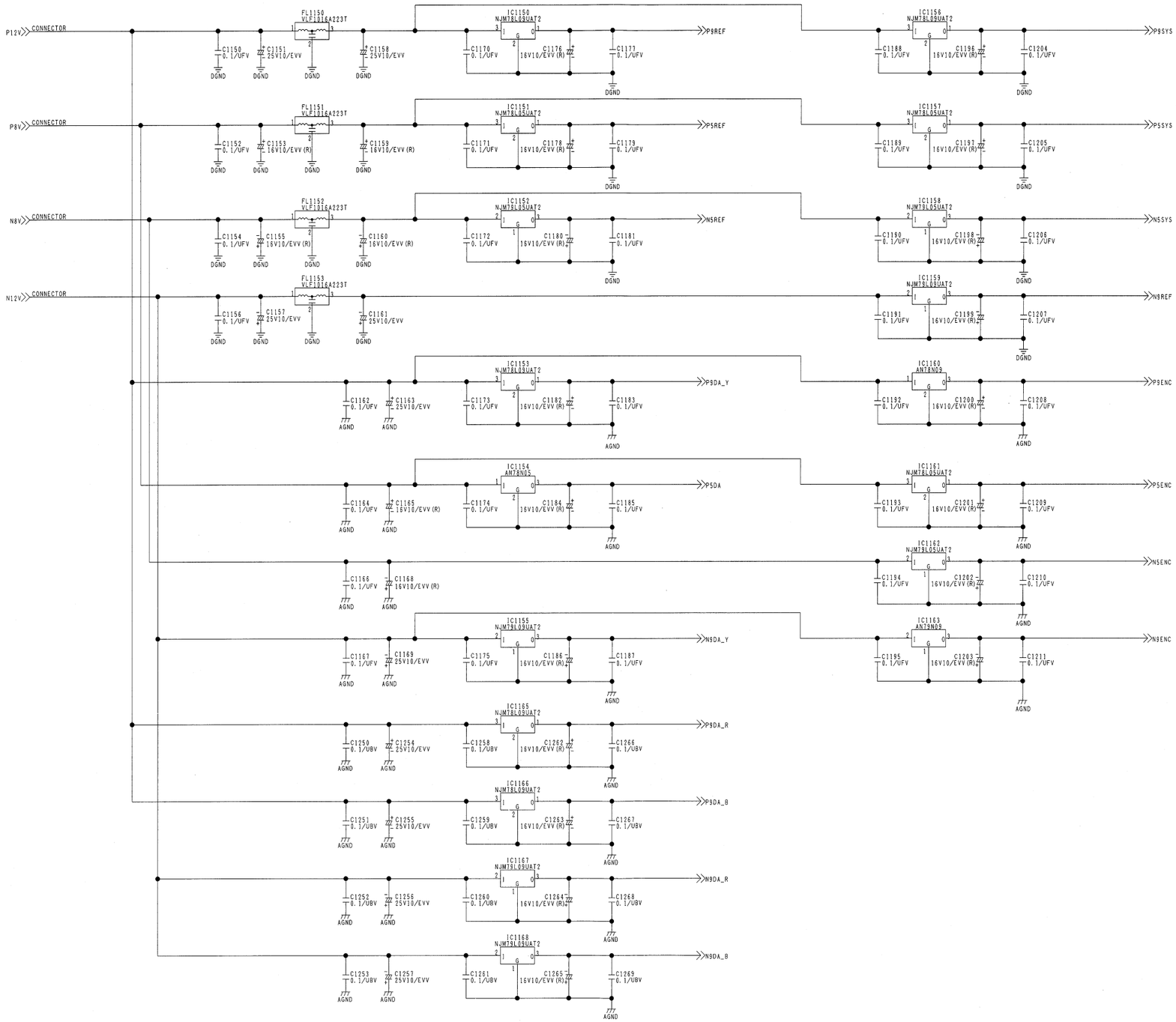


COMPONENT NAME	V_OUT(SYNC_GEN_2) 13/16
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	
KR3S24(13/16)	SCM56

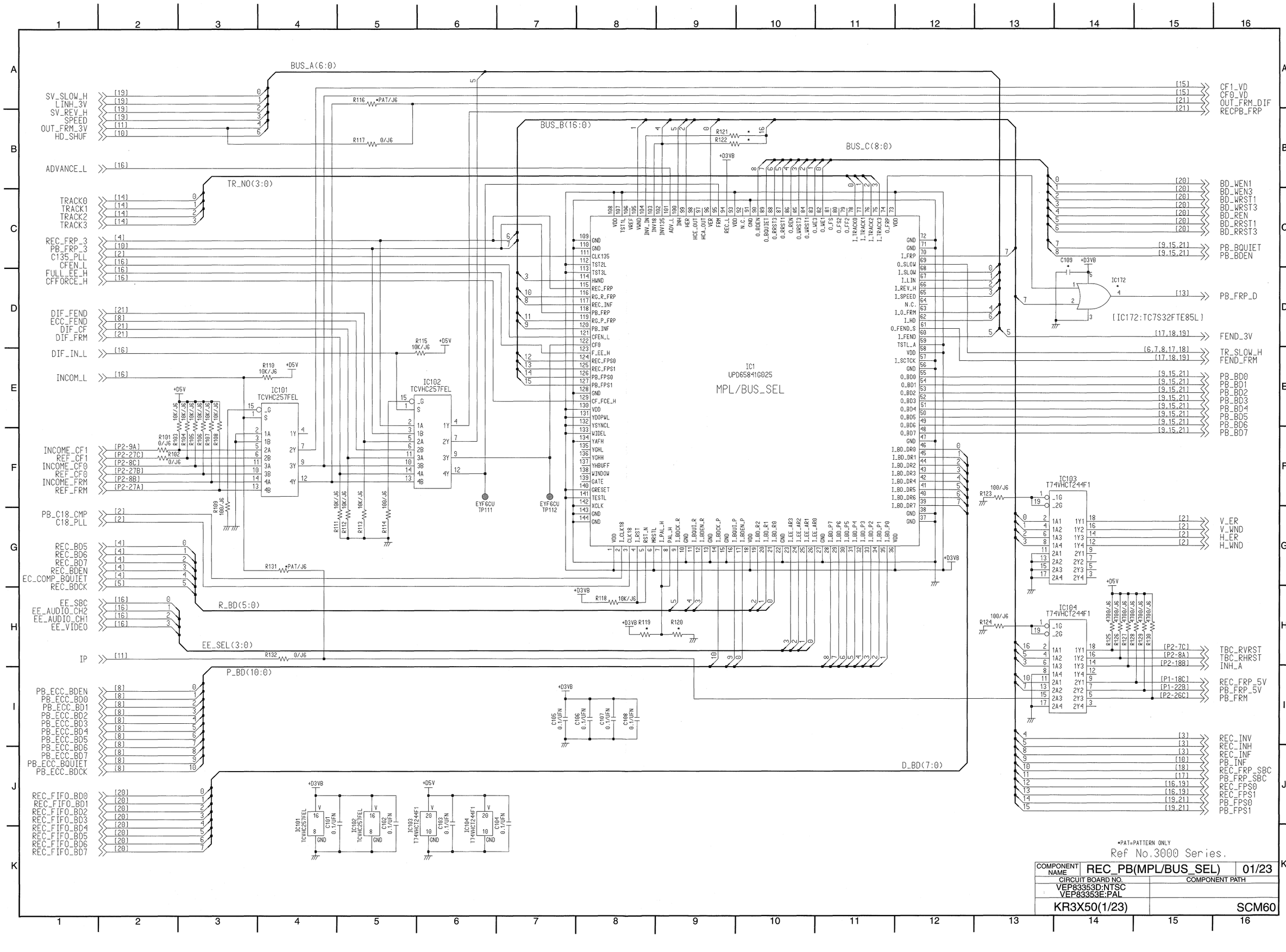


COMPONENT NAME	V_OUT(SYNC_GEN_3) 14/16
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	
KR3S24(14/16)	SCM57


SYS_SC_COARSE0
SYS_SC_COARSE1
VFLOAT_H
FLOAT_RST
D_ENC
SYS_IF
SG_BUS [1-34]
SG_BUS [33]
SG_BUS [17]
SG_BUS [1]
SG_BUS [26]
SG_BUS [27]
SG_BUS [10]
SG_BUS [19]
SG_BUS [22]
SG_BUS [20]
SG_BUS [21]
SG_BUS [23]
SG_BUS [24]
SG_BUS [25]
SG_BUS [17]
SG_BUS [32]
SYS_H [0-7]
P9REF
N9REF
REG
RFCF
TP1100 VJR0646
TG1106 VJR0646
VCC
DGND
H PHASE
SYS_H
BF_PHASE
P5REF
IC1106 UPD65650J203
IC1100 NJM084M-T1
IC1102 DAC10GS-L
IC1103 SN74LS221NSR
IC1107 MC74HC04AF-R
IC1113 MC74HC244AFR
IC1108 MC74HC04AF-R
IC1115 SN74LS221NSR
IC1116 SN74LS221NSR
IC1114 MC74HC00AF-R
VJR0646 TP1105
VJR0646 TP1102
VJR0646 TP1103
VJR0646 TP1104
D_ENC
RDFRM
D_OUT_BUFF
SYS_VP_N
YNBK
REF_FHS_N
D_BUFF, D_ENC
RDHD
D_BUFF
RFRM
HD
VP
REFCF
ANALOG ENC
ADBF
OUT_BF
SYNC_GEN_2
LALIO
D_ENC, SYS_IF, SYNC_GEN_2
SDET
WSC
SYNC_GEN_1
RSY
RSC
CMPNENT DA, ANALOG ENC, YC MIX
CLAMP_N
NCBK
VD
PALP
(PAL ONLY)
RHS
SYS_HD_N
ER1
WND1
ER2
WND2
VXO3
VX01
D_OUT_BUFF
OUT_CS_N
STP2
CS1
R1103 10K/3300/J3
R1104 56K/J3
R1105 6800/4700/J3
R1109 6800/J3
C1110 1000P/680P/USV
C1114 15P/UV
R1106 4700/J3
R1107 1500/J3
R1108 4700/J3
R1110 56K/J3
R1111 PAT/J3
R1112 56K/J3
R1100 5600/J3
R1101 10K/18K/J3
R1126 100/J3
R1102 PAT/J3
R1103 PAT/J3
R1127 21K/J3
R1128 4700/J3
R1113 0/PAT/J3
R1114 PAT/J3
R1115 0/J3
R1116 0/PAT/J3
R1117 0/PAT/J3
R1118 PAT/J3
R1119 0/J3
R1120 PAT/0/J3
R1121 0/PAT/J3
R1122 100K/J3
R1123 1000/2200/J3
R1124 5600/6800/J3
R1135 120K/PAT/J3
R1125 10K/J3
R1130 PAT/J3
R1136 1000/J3
R1129 470/J3
VR1100 5K
VR1102 5K
C1121 16V10/EVV (R)
C1104 16V10/EVV(R)
C1101 0.1/UFV
C1102 PAT/UFV
C1103 0.1/UFV
C1105 0.1/UFV
C1106 0.1/UFV
C1107 0.1/UFV
C1108 0.1/UFV
C1109 16V10/EVV
C1111 0.1/UFV
C1112 0.1/UFV
C1113 0.1/UFV
C1115 0.1/UFV
C1116 0.1/UFV
C1117 0.1/UFV
C1118 0.1/UFV
C1119 0.1/UFV
C1120 0.1/UFV
C1122 0.1/UFV
C1123 100P/UV
C1124 0.1/UFV
C1125 0.1/UFV
C1126 0.1/UFV
C1127 680P/470P/USV
C1128 470P/UV
C1129 0.1/UFV
C1130 0.1/UFV
C1131 0.1/UFV
L1100 22U/LA
L1101 22U/LA
D1100 MA142K-TX
COMPONENT NAME: V_OUT(SYNC_GEN_4) 15/16
CIRCUIT BOARD NO.: VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL
COMPONENT PATH
KR3S24(15/16)
SCM58



COMPONENT NAME	V_OUT(REG) 16/16
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	
KR3S24(16/16)	SCM59


BUS_A(6:0)
BUS_B(16:0)
BUS_C(8:0)
TR_NO(3:0)
R_BD(5:0)
EE_SEL(3:0)
P_BD(10:0)
D_BD(7:0)
IC1
UPD65841G025
MPL/BUS_SEL
IC101
TCVHC257FEL
IC102
TCVHC257FEL
IC103
T74VHCT244F1
IC104
T74VHCT244F1
IC172
[IC172:TC7S32FTE85L]
SV_SLOW_H
LINH_3V
SV_REV_H
SPEED
OUT_FRM_3V
HD_SHUF
ADVANCE_L
TRACK0
TRACK1
TRACK2
TRACK3
REC_FRP_3
PB_FRP_3
C135_PLL
CFEN_L
FULL_EE_H
CFFORCE_H
DIF_FEND
ECC_FEND
DIF_CF
DIF_FRM
DIF_IN_L
INCOM_L
INCOME_CF1
REF_CF1
INCOME_CF0
REF_CF0
INCOME_FRM
REF_FRM
PB_C18_CMP
C18_PLL
REC_BD5
REC_BD6
REC_BD7
REC_BDEN
EC_COMP_BQUIET
REC_BDCK
EE_SBC
EE_AUDIO_CH2
EE_AUDIO_CH1
EE_VIDEO
IP
PB_ECC_BDEN
PB_ECC_BD0
PB_ECC_BD1
PB_ECC_BD2
PB_ECC_BD3
PB_ECC_BD4
PB_ECC_BD5
PB_ECC_BD6
PB_ECC_BD7
PB_ECC_BQUIET
PB_ECC_BDCK
REC_FIFO_BD0
REC_FIFO_BD1
REC_FIFO_BD2
REC_FIFO_BD3
REC_FIFO_BD4
REC_FIFO_BD5
REC_FIFO_BD6
REC_FIFO_BD7
CF1_VD
CF0_VD
OUT_FRM_DIF
RECPB_FRP
BD_WEN1
BD_WEN3
BD_WRST1
BD_WRST3
BD_REN
BD_RRST1
BD_RRST3
PB_BQUIET
PB_BDEN
PB_FRP_D
FEND_3V
TR_SLOW_H
FEND_FRM
PB_BD0
PB_BD1
PB_BD2
PB_BD3
PB_BD4
PB_BD5
PB_BD6
PB_BD7
V_ER
V_WND
H_ER
H_WND
TBC_RVRST
TBC_RHRST
INH_A
REC_FRP_5V
PB_FRP_5V
PB_FRM
REC_INV
REC_INH
REC_INF
PB_INF
REC_FRP_SBC
PB_FRP_SBC
REC_FPS0
REC_FPS1
PB_FPS0
PB_FPS1
*PAT=PATTERN ONLY
Ref No.3000 Series.
COMPONENT NAME
REC_PB(MPL/BUS_SEL)
01/23
CIRCUIT BOARD NO.
VEP83353D:NTSC
VEP83353E:PAL
COMPONENT PATH
KR3X50(1/23)
SCM60

13.5MHz

SHIELD CASE

18MHz

[IC170:TC7S66FTE85L]

*PAT=PATTERN ONLY

Ref No.3000 Series.

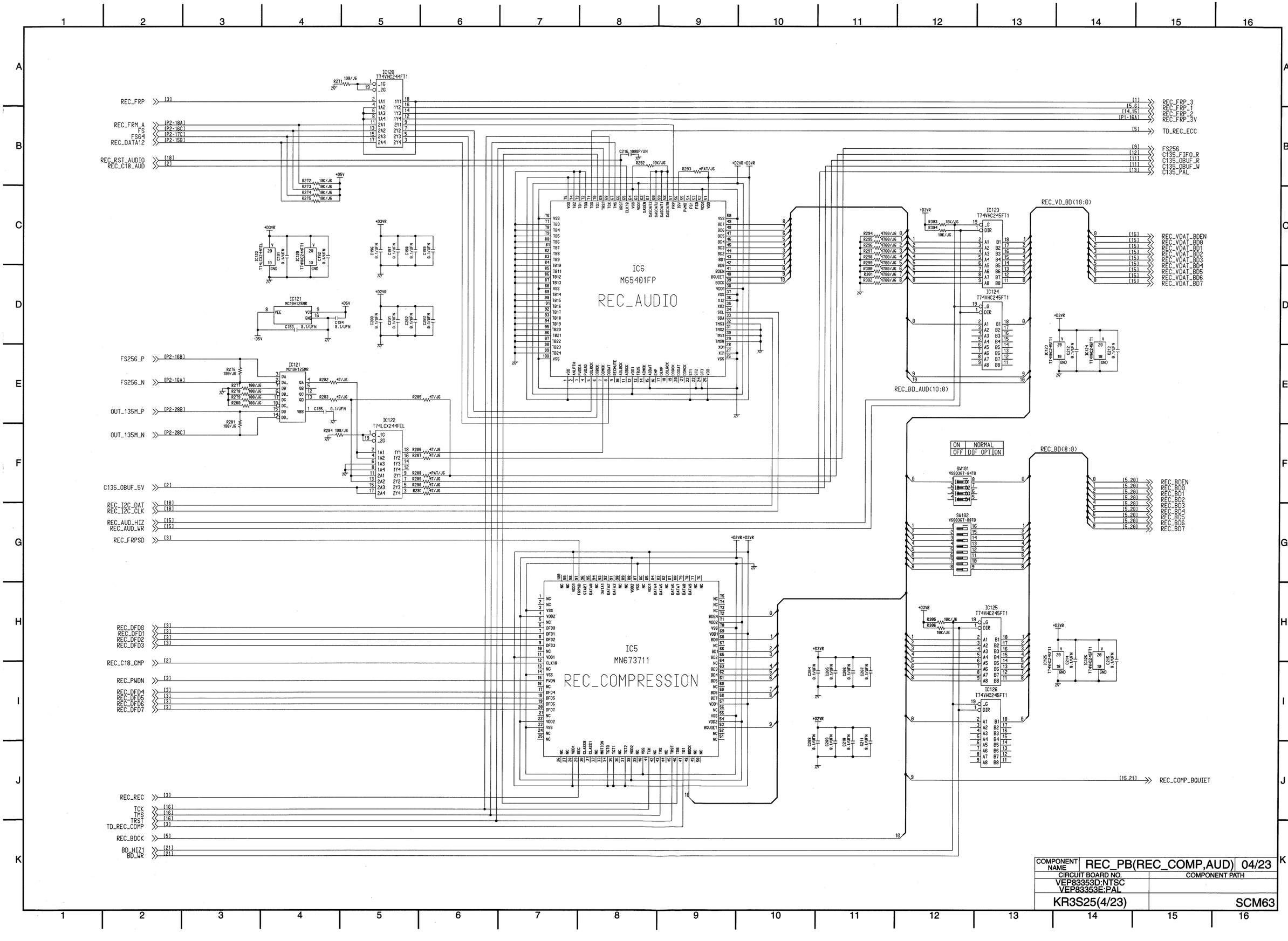
COMPONENT NAME	REC_PB(PLL) 02/23
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL	
KR3S25(2/23)	SCM61

IC3
MN67372A2
REC_SHUFFLE

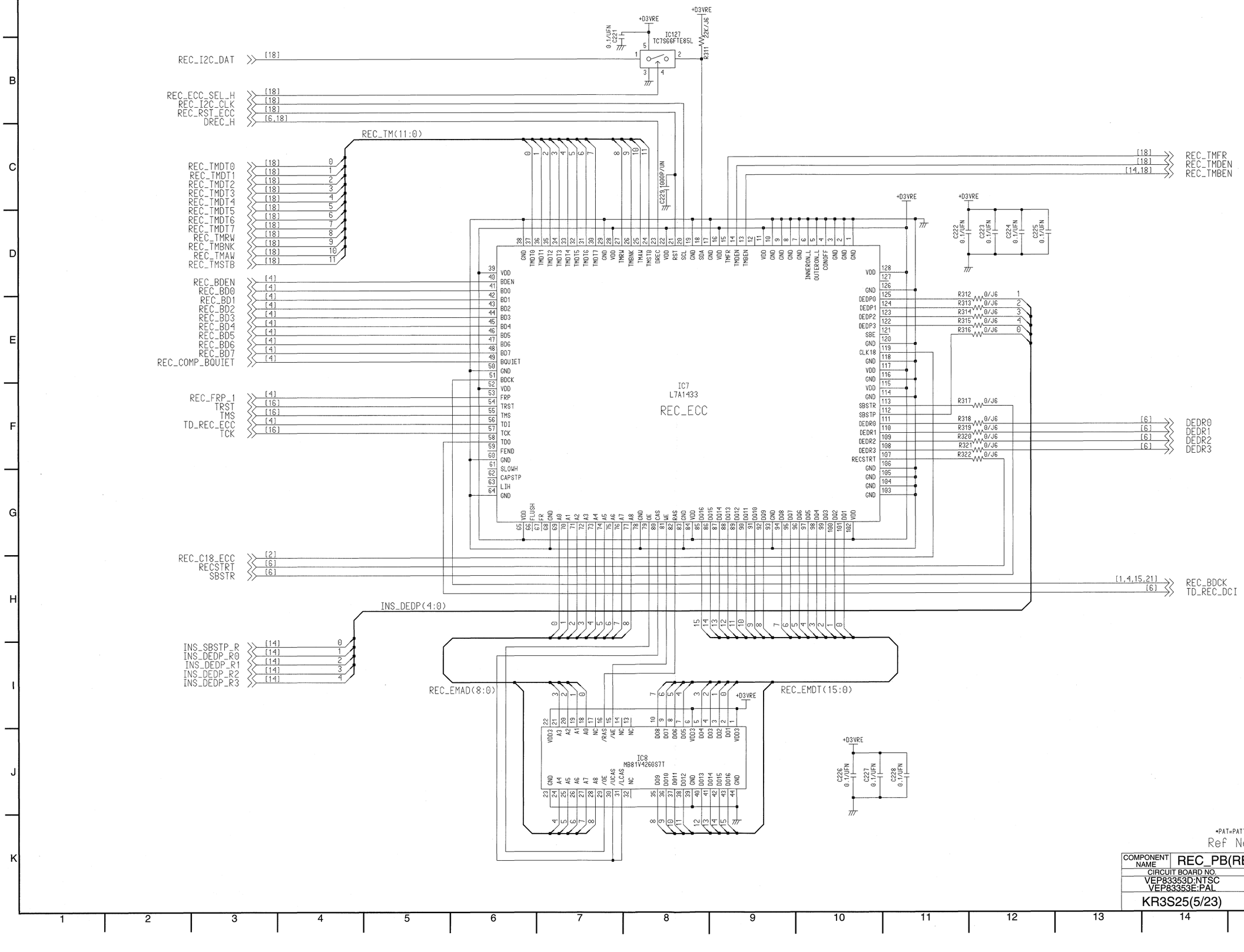
IC4
REC_SHUF_MEMORY

[NTSC:MN4706F]
[PAL:MN4707F]

COMPONENT NAME	REC_PB(REC_SHUF)		03/23
CIRCUIT BOARD NO.		COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL			
KR3S25(3/23)			SCM62



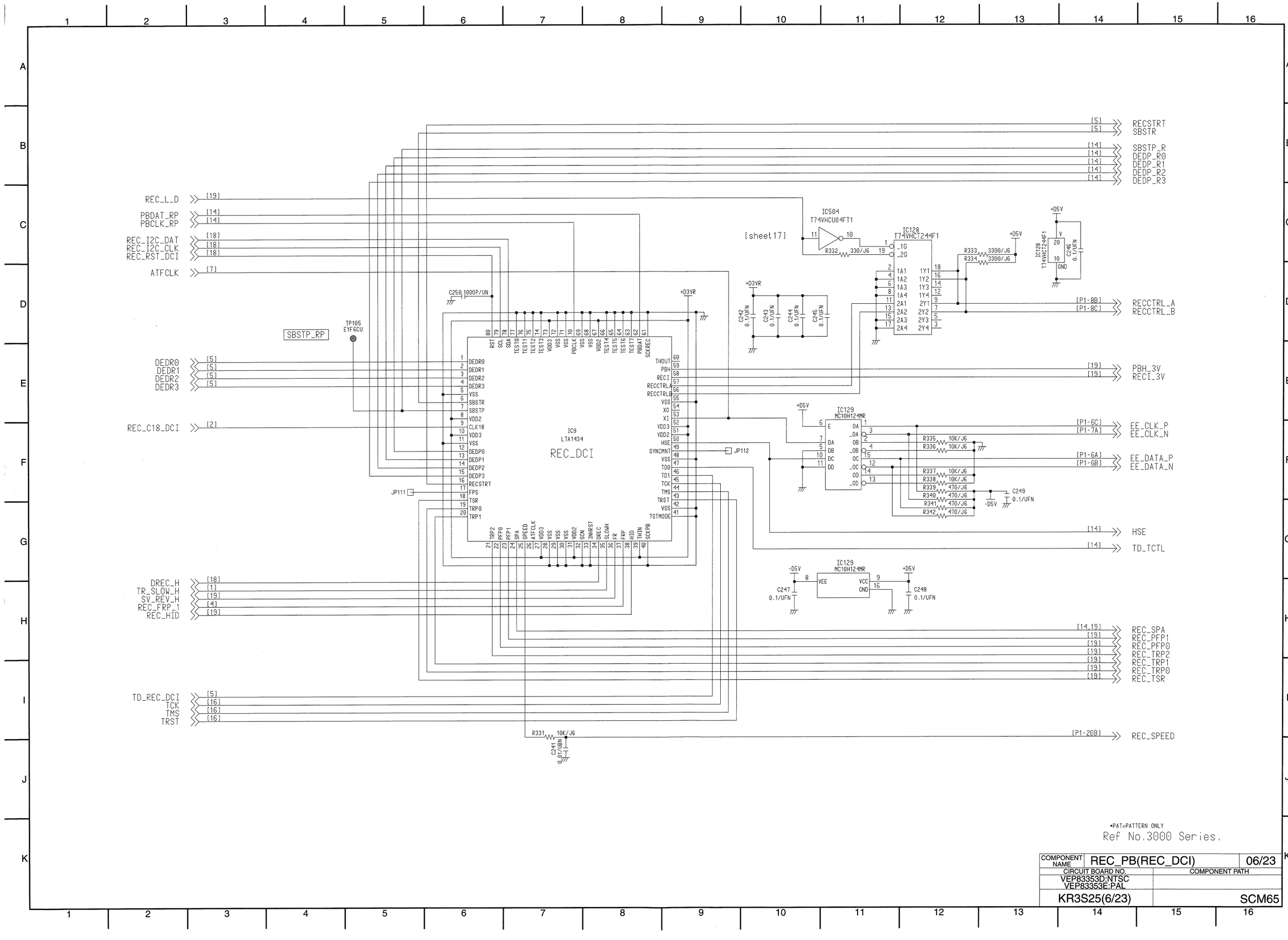
COMPONENT NAME	REC_PB(REC_COMP,AUD) 04/23
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL	
KR3S25(4/23)	SCM63



*PAT=PATTERN ONLY

Ref No.3000 Series.

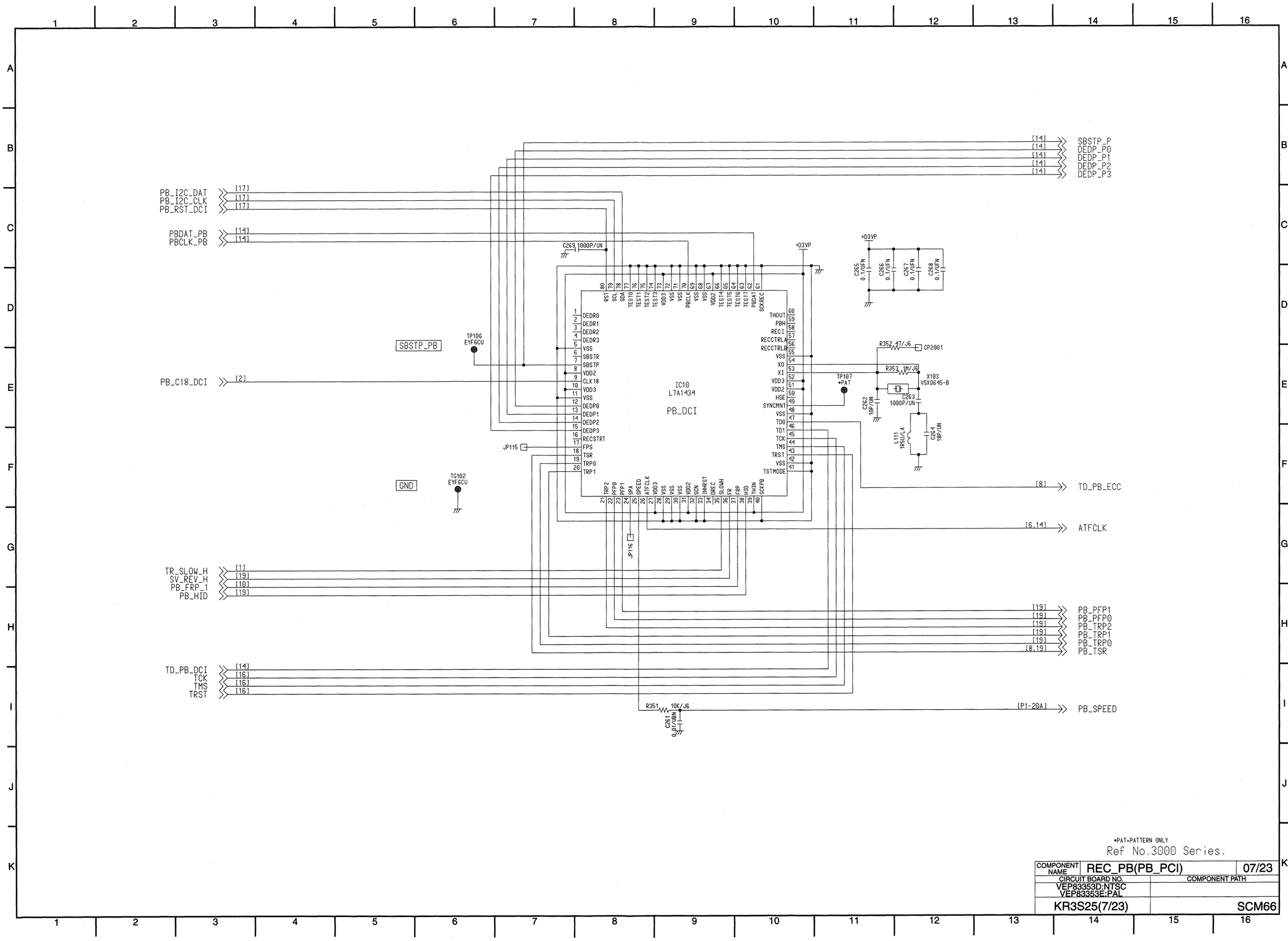
COMPONENT NAME	REC_PB(REC_ECC)	05/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(5/23)		SCM64



*PAT=PATTERN ONLY

Ref No.3000 Series.

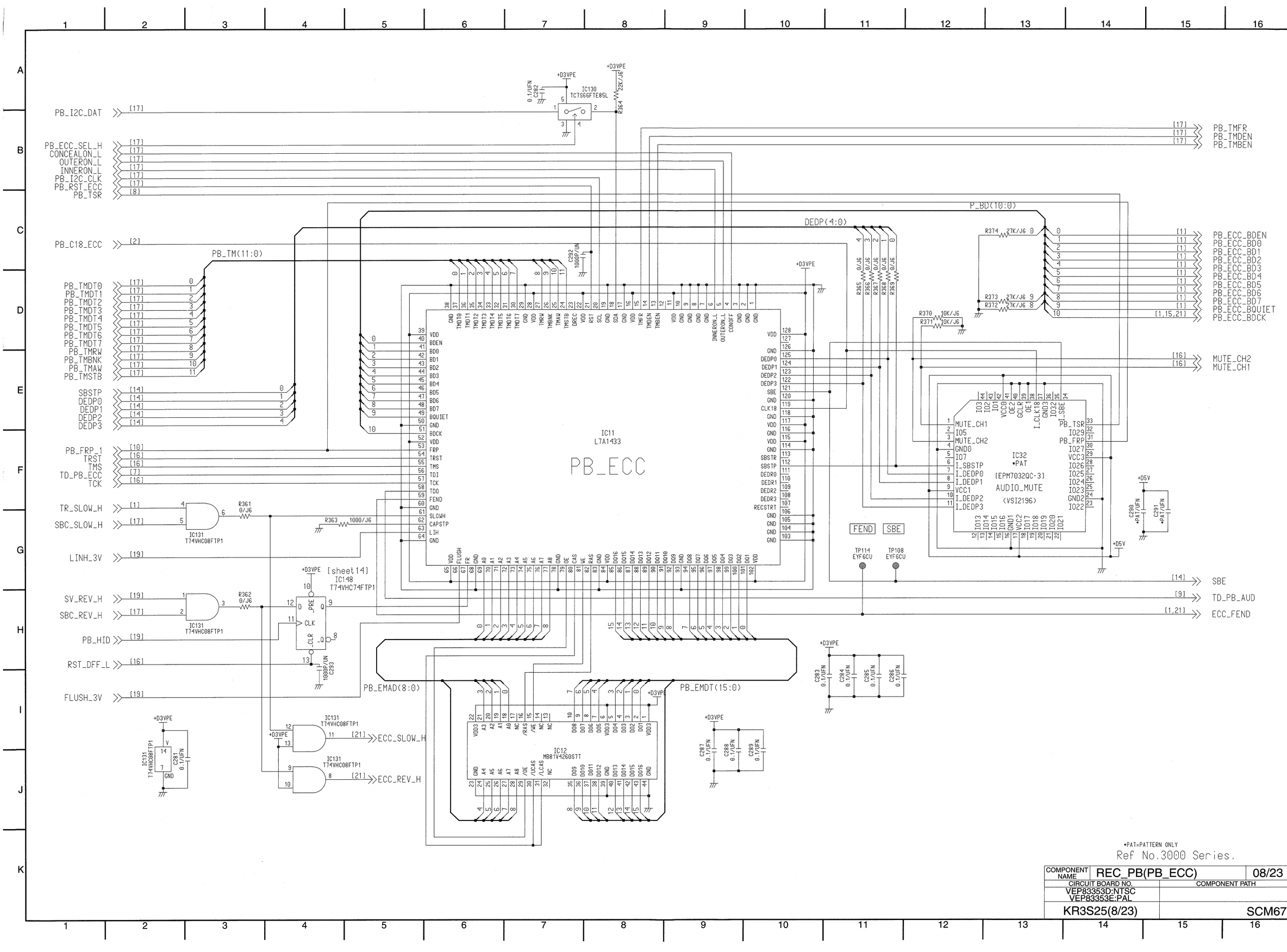
COMPONENT NAME	REC_PB(REC_DCI)	06/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(6/23)		SCM65

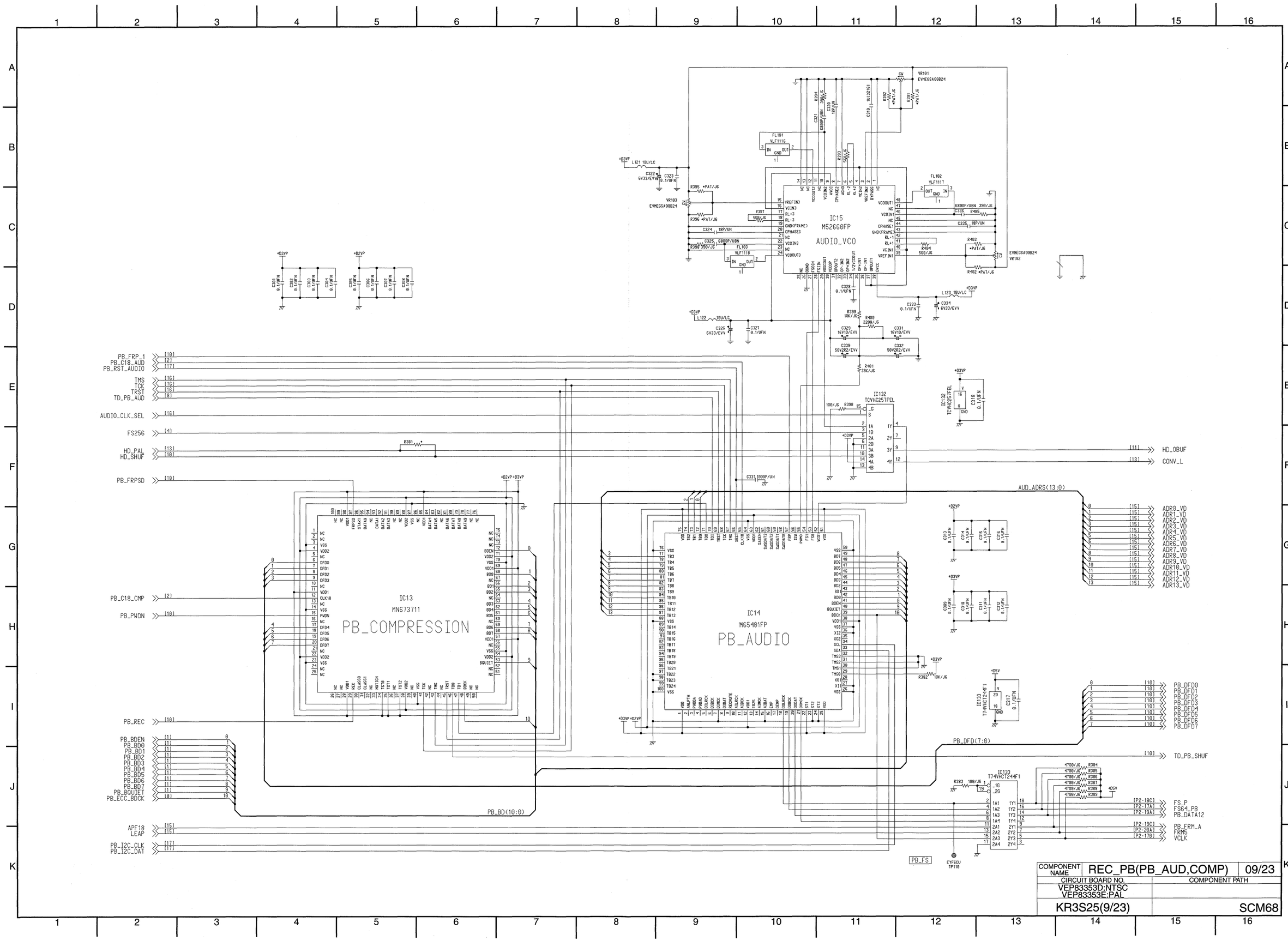


*PAT=PATTERN ONLY

Ref No.3000 Series.

COMPONENT NAME	REC_PB(PB_PCI)	07/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(7/23)		SCM66


PB_I2C_DAT
PB_ECC_SEL_H
CONCEALON_L
OUTERON_L
INNERON_L
PB_I2C_CLK
PB_RST_ECC
PB_TSR
PB_C18_ECC
PB_TM(11:0)
PB_TMDT0
PB_TMDT1
PB_TMDT2
PB_TMDT3
PB_TMDT4
PB_TMDT5
PB_TMDT6
PB_TMDT7
PB_TMRW
PB_TMBNK
PB_TMAW
PB_TMSTB
SBSTP
DEDP0
DEDP1
DEDP2
DEDP3
PB_FRP_1
TRST
TMS
TD_PB_ECC
TCK
TR_SLOW_H
SBC_SLOW_H
LINH_3V
SV_REV_H
SBC_REV_H
PB_HID
RST_DFF_L
FLUSH_3V
IC130
TC7SG6FTE85L
+D3VPE
C282
0.1/UFN
R364
22K/J6
IC11
L7A1433
PB_ECC
DEDP(4:0)
P_BD(10:0)
R365
R366
R367
R368
R369
0/J6
R374
27K/J6
R373
R372
R370
10K/J6
R371
0K/J6
PB_TMFR
PB_TMDEN
PB_TMBEN
PB_ECC_BDEN
PB_ECC_BD0
PB_ECC_BD1
PB_ECC_BD2
PB_ECC_BD3
PB_ECC_BD4
PB_ECC_BD5
PB_ECC_BD6
PB_ECC_BD7
PB_ECC_BQUIET
PB_ECC_BDCK
MUTE_CH2
MUTE_CH1
IC32
*PAT
[EPM7032QC-3]
AUDIO_MUTE
(VSI2196)
MUTE_CH1
IO5
MUTE_CH2
GND0
IO7
I_SBSTP
I_DEDP0
I_DEDP1
VCC1
I_DEDP2
I_DEDP3
PB_TSR
IO29
PB_FRP
IO27
VCC3
IO26
IO25
IO24
IO23
GND2
IO22
+D5V
C290
0.1UFN
C291
*PAT/UFN
FEND
SBE
TP114
EYF6CU
TP108
EYF6CU
SBE
TD_PB_AUD
ECC_FEND
[sheet14]
IC148
T74VHC74FTP1
_PRE
CLK
_CLR
C293
1000P/UN
R361
R362
R363
1000/J6
IC131
T74VHC08FTP1
PB_EMAD(8:0)
PB_EMDT(15:0)
IC12
MB81V4260S7T
C283
C284
C285
C286
C287
C288
C289
0.1/UFN
ECC_SLOW_H
ECC_REV_H
*PAT=PATTERN ONLY
Ref No.3000 Series.
COMPONENT NAME
REC_PB(PB_ECC)
08/23
CIRCUIT BOARD NO.
VEP83353D:NTSC
VEP83353E:PAL
COMPONENT PATH
KR3S25(8/23)
SCM67



COMPONENT NAME	REC_PB(PB_AUD,COMP) 09/23
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL	
KR3S25(9/23)	SCM68

PB_DFD0 [9] 0
PB_DFD1 [9] 1
PB_DFD2 [9] 2
PB_DFD3 [9] 3
PB_DFD4 [9] 4
PB_DFD5 [9] 5
PB_DFD6 [9] 6
PB_DFD7 [9] 7
PB_DFD(7:0)

PB_RST_SHUFFL [17]
PB_I2C_CLK [17]
PB_I2C_DAT [17]

TD_PB_SHUF [9]
TRST [16]
TCK [16]
TMS [16]

PB_SAS(4:0)
PB_SASDAT0 [15] 0
PB_SASDAT1 [15] 1
PB_SASDAT2 [15] 2
PB_SASDAT3 [15] 3
PB_SASEN [15] 4

PB_INF [1]
PB_C13S_SHF [2]

PB_C18_SHF [2]
PB_C18_SM1 [2]
PB_C18_SM2 [2]

PB_FRP
TP189 EYE&CU

IC124 T74VHC244FT1
R411 109/J6
+D3VP
C134 TTX#MC24#11 0.1/16V
C135 0.1/16V

[15] VBLK_VD
[11,13] VBLK_SHUF
[15] HD_VD
[1,9,13] HD_SHUF
[7,8,9] PB_FRP_1
[11,14,15] PB_FRP_2
[1] PB_FRP_3

[9] PB_FRPSD
[9] PB_REC
[9] PB_PWDN

PB_SMAD(17:0)

IC16
MN67372A2
PB_SHUFFLE

IC17
PB_SHUF_MEMORY

PB_DSF(7:0)

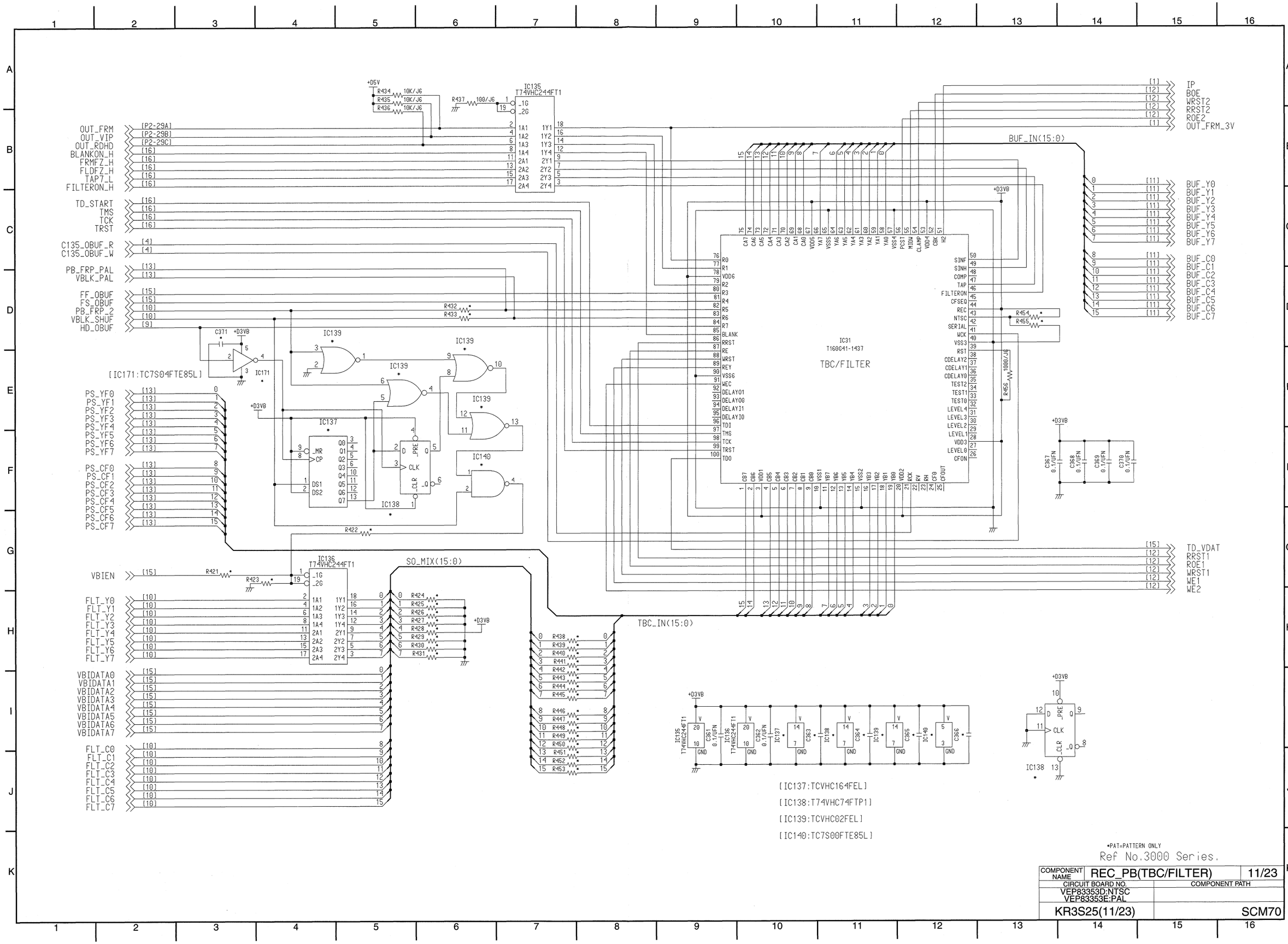
SO(15:0)

[16] TD_END

FLT_Y0 [11]
FLT_Y1 [11]
FLT_Y2 [11]
FLT_Y3 [11]
FLT_Y4 [11]
FLT_Y5 [11]
FLT_Y6 [11]
FLT_Y7 [11]
FLT_C0 [11]
FLT_C1 [11]
FLT_C2 [11]
FLT_C3 [11]
FLT_C4 [11]
FLT_C5 [11]
FLT_C6 [11]
FLT_C7 [11]

[NTSC:MN4706F]
[PAL:MN4707F]

COMPONENT NAME	REC_PB(PB_SHUF)	10/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(10/23)		SCM69


IC135 T74VHC244FT1
IC136 T74VHC244FT1
IC31 T160G41-1437
TBC/FILTER
IC171 [IC171:TC7S04FTE85L]
IC137
IC138
IC139
IC140
OUT_FRM
OUT_VIP
OUT_RDHD
BLANKON_H
FRMFZ_H
FLDFZ_H
TAP7_L
FILTERON_H
TD_START
TMS
TCK
TRST
C135_OBUF_R
C135_OBUF_W
PB_FRP_PAL
VBLK_PAL
FF_OBUF
FS_OBUF
PB_FRP_2
VBLK_SHUF
HD_OBUF
PS_YF0
PS_YF1
PS_YF2
PS_YF3
PS_YF4
PS_YF5
PS_YF6
PS_YF7
PS_CF0
PS_CF1
PS_CF2
PS_CF3
PS_CF4
PS_CF5
PS_CF6
PS_CF7
VBIEN
FLT_Y0
FLT_Y1
FLT_Y2
FLT_Y3
FLT_Y4
FLT_Y5
FLT_Y6
FLT_Y7
VBIDATA0
VBIDATA1
VBIDATA2
VBIDATA3
VBIDATA4
VBIDATA5
VBIDATA6
VBIDATA7
FLT_C0
FLT_C1
FLT_C2
FLT_C3
FLT_C4
FLT_C5
FLT_C6
FLT_C7
BUF_IN(15:0)
SO_MIX(15:0)
TBC_IN(15:0)
IP
BOE
WRST2
RRST2
ROE2
OUT_FRM_3V
BUF_Y0
BUF_Y1
BUF_Y2
BUF_Y3
BUF_Y4
BUF_Y5
BUF_Y6
BUF_Y7
BUF_C0
BUF_C1
BUF_C2
BUF_C3
BUF_C4
BUF_C5
BUF_C6
BUF_C7
TD_VDAT
RRST1
ROE1
WRST1
WE1
WE2
+D5V
+D3VB
[IC137:TCVHC164FEL]
[IC138:T74VHC74FTP1]
[IC139:TCVHC02FEL]
[IC140:TC7S00FTE85L]
*PAT=PATTERN ONLY
Ref No.3000 Series.
COMPONENT NAME
REC_PB(TBC/FILTER)
11/23
CIRCUIT BOARD NO.
VEP83353D:NTSC
VEP83353E:PAL
COMPONENT PATH
KR3S25(11/23)
SCM70

BUFF_IN(15:0)

BUF_Y0 BUF_Y1 BUF_Y2 BUF_Y3 BUF_Y4 BUF_Y5 BUF_Y6 BUF_Y7 [11]

BUF_C0 BUF_C1 BUF_C2 BUF_C3 BUF_C4 BUF_C5 BUF_C6 BUF_C7 [11]

IC18 UPD42280G3E2

IC19 UPD42280G3E2

IC20 UPD42280G3E2

IC21 UPD42280G3E2

C381 0.1/UFN
C382 0.1/UFN
C383 0.1/UFN
C384 0.1/UFN
C385 0.1/UFN
C386 0.1/UFN
C387 0.1/UFN
C388 0.1/UFN

R461 0/J6 +D5V +D3VP

R462 *PAT/J6

IC141 74ALS541SJR
C389 0.1/UFN
IC142 74ALS541SJR
C390 0.1/UFN

IC141 74ALS541SJR

IC142 74ALS541SJR

IC143 74ALS541SJR

R463 100/J6

IC144 74ALS541SJR

R464 100/J6

[P2-24A] PB_Y_DATA0
[P2-24B] PB_Y_DATA1
[P2-24C] PB_Y_DATA2
[P2-25A] PB_Y_DATA3
[P2-25B] PB_Y_DATA4
[P2-25C] PB_Y_DATA5
[P2-26A] PB_Y_DATA6
[P2-26B] PB_Y_DATA7

[P2-21B] PB_C_DATA0
[P2-21C] PB_C_DATA1
[P2-22A] PB_C_DATA2
[P2-22B] PB_C_DATA3
[P2-22C] PB_C_DATA4
[P2-23A] PB_C_DATA5
[P2-23B] PB_C_DATA6
[P2-23C] PB_C_DATA7

BUFF_OUT(15:0)

C135_FIFO_W [2]
WRST1 [11]
WE1 [11]
WRST2 [11]
WE2 [11]

C135_FIFO_R [4]
RRST1 [11]
ROE1 [11]
RRST2 [11]
ROE2 [11]
BOE [11]

IC143 74ALS541SJR
C391 0.1/UFN
IC144 74ALS541SJR
C392 0.1/UFN

*PAT=PATTERN ONLY

Ref No.3000 Series.

COMPONENT NAME	REC_PB(OUT_BUFF 2)	12/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(12/23)		SCM71

PRES_DAT(15:0)

PS_YF0 PS_YF1 PS_YF2 PS_YF3 PS_YF4 PS_YF5 PS_YF6 PS_YF7

PS_CF0 PS_CF1 PS_CF2 PS_CF3 PS_CF4 PS_CF5 PS_CF6 PS_CF7

C135_PAL

PB_FRP_PAL
VBLK_PAL
HD_PAL

CONV_L

C401 * R471 * R472 * R473 * C402 *

IC35
*
PRE_SHUF

[IC35:CG25123-5106]

PRES_AD1(14:0)

PRES_DT1(7:0)

IC36
*

[IC36:CY7C19920ZC]

+D5V C403 *

PRES_AD2(14:0)

PRES_DT(7:0)

IC37
*

[IC37:CY7C19920ZC]

+D5V C404 *

+D3VB +D5V

VBIDATA0
VBIDATA1
VBIDATA2
VBIDATA3
VBIDATA4
VBIDATA5
VBIDATA6
VBIDATA7

FLT_C0
FLT_C1
FLT_C2
FLT_C3
FLT_C4
FLT_C5
FLT_C6
FLT_C7

+D5V C405 * C406 * C407 * C408 *

+D3VB C409 * C410 * C411 * C412 *

PB_FRP_D
VBLK_SHUF
HD_SHUF

*PAT=PATTERN ONLY

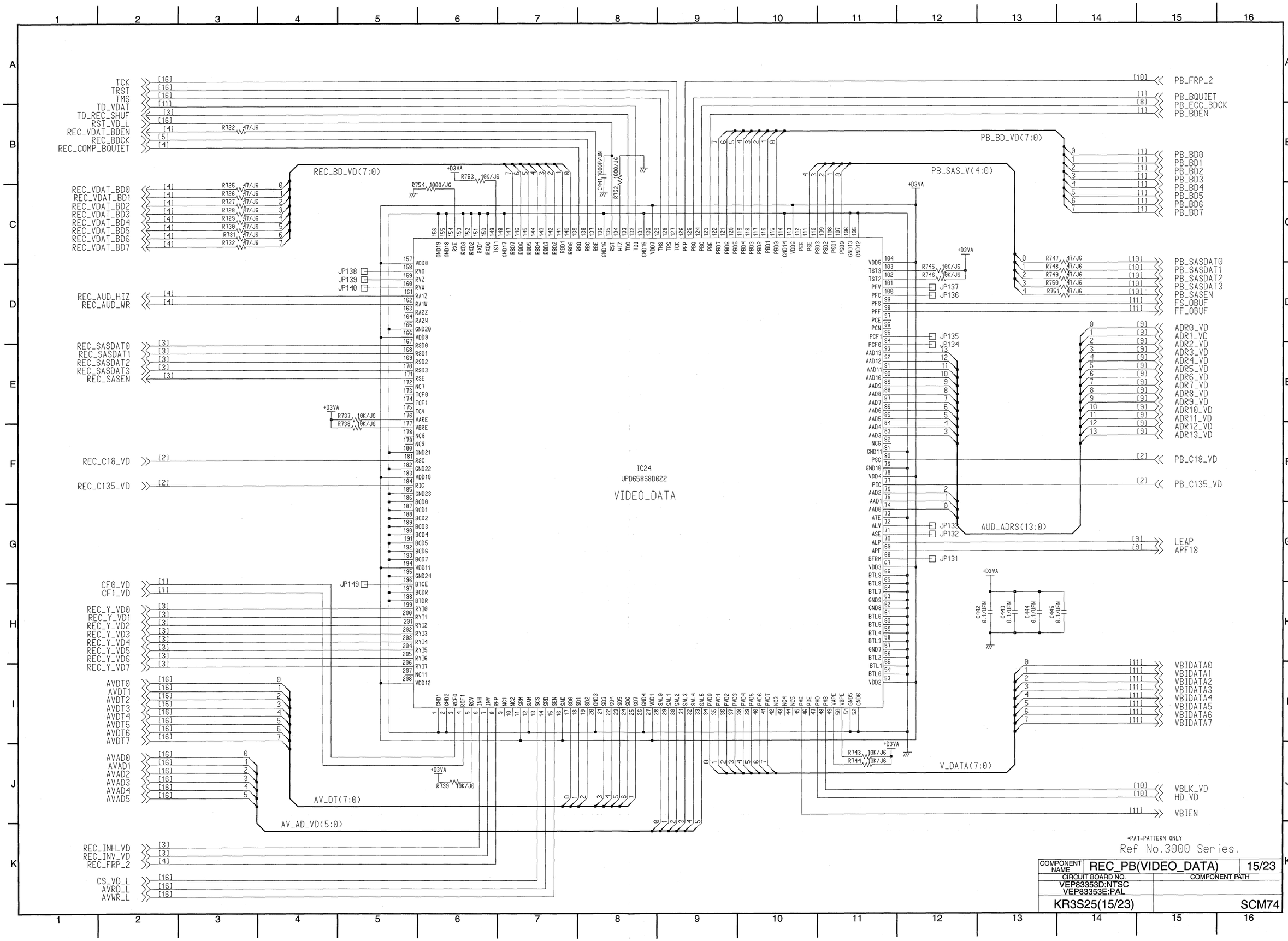
Ref No.3000 Series.

COMPONENT NAME	REC_PB(PAL)	13/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(13/23)		SCM72

REC_L [18,19]
REC_SPA [6]
TCK [16]
TRST [16]
TMS [16]
TD_TCTL [6]
REC_FRP_2 [4]
REC_TMBEN [5,6]
REC_HID [19]
C18_TC [2]
SBE [8]
[7] TD_PB_DCI
SBSTP_R [6]
DEDP_R0 [6]
DEDP_R1 [6]
DEDP_R2 [6]
DEDP_R3 [6]
REC_C18_DCI [2]
DEDP_RP(4:0)
DEDP_DLY(4:0)
[sheet8]
IC23 UPD42280G3E2
IC148 T74VHC74FTP1
+D5V
+D3VA
+D3VPE
R481 0/J6
R482 *PAT/J6
R483 100/J6
R709 1000/J6
R710 10K/J6
C421 0.1/UFN
C422 0.1/UFN
C426 0.1/UFN
C427 0.1/UFN
C428 0.1/UFN
C429 0.1/UFN
IC22 UPD65843G026
RECPB_CTRL
[19] FECTRL1_3V
[19] FECTRL0_3V
PB_CLK_P_P [P1-11A]
PB_CLK_P_N [P1-11B]
PB_DAT_P_P [P1-10B]
PB_DAT_P_N [P1-10C]
PB_CLK_R_P [P1-9C]
PB_CLK_R_N [P1-10A]
PB_DAT_R_P [P1-9A]
PB_DAT_R_N [P1-9B]
R485 100/J6
R484 100/J6
R487 100/J6
R486 100/J6
IC145 MC10H125MR
C423 0.1/UFN
IC146 T74LCX244FEL
IC147 T74LCX244FEL
R488 100/J6
R499 100/J6
R489 *PAT/J6
R490 *PAT/J6
R491 0/J6
R492 0/J6
R493 *PAT/J6
R494 *PAT/J6
R495 0/J6
R496 *PAT/J6
R497 *PAT/J6
R498 *PAT/J6
R701 0/J6
R702 *PAT/J6
R703 0/J6
R704 *PAT/J6
R705 *PAT/J6
R706 *PAT/J6
R707 *PAT/J6
R708 0/J6
C424 0.1/UFN
C425 0.1/UFN
C430 0.1/UFN
C431 0.1/UFN
C432 0.1/UFN
IC148 T74VHC74FTP1
-D5V
[7] PBCLK_PB
[7] PBDAT_PB
[6] PBCLK_RP
[6] PBDAT_RP
[1] TRACK0
[1] TRACK1
[1] TRACK2
[1] TRACK3
[8] SBSTP
[8] DEDP0
[8] DEDP1
[8] DEDP2
[8] DEDP3
INS_DEDP(4:0)
[5] INS_SBSTP_R
[5] INS_DEDP_R0
[5] INS_DEDP_R1
[5] INS_DEDP_R2
[5] INS_DEDP_R3
ATFCLK [6]
HSE [6]
PB_FRP_2 [10]
PB_HID [19]
AVAD0 [16]
AVAD1 [16]
AVAD2 [16]
AVAD3 [16]
AVAD4 [16]
AVAD5 [16]
AVDT0 [16]
AVDT1 [16]
AVDT2 [16]
AVDT3 [16]
AVDT4 [16]
AVDT5 [16]
AVDT6 [16]
AVDT7 [16]
CS_TC_L [16]
AVRD_L [16]
AVWR_L [16]
SBSTP_P [7]
DEDP_P0 [7]
DEDP_P1 [7]
DEDP_P2 [7]
DEDP_P3 [7]
AV_BUS(16:0)
DEDP_PB(4:0)

*PAT=PATTERN ONLY
Ref No.3000 Series.

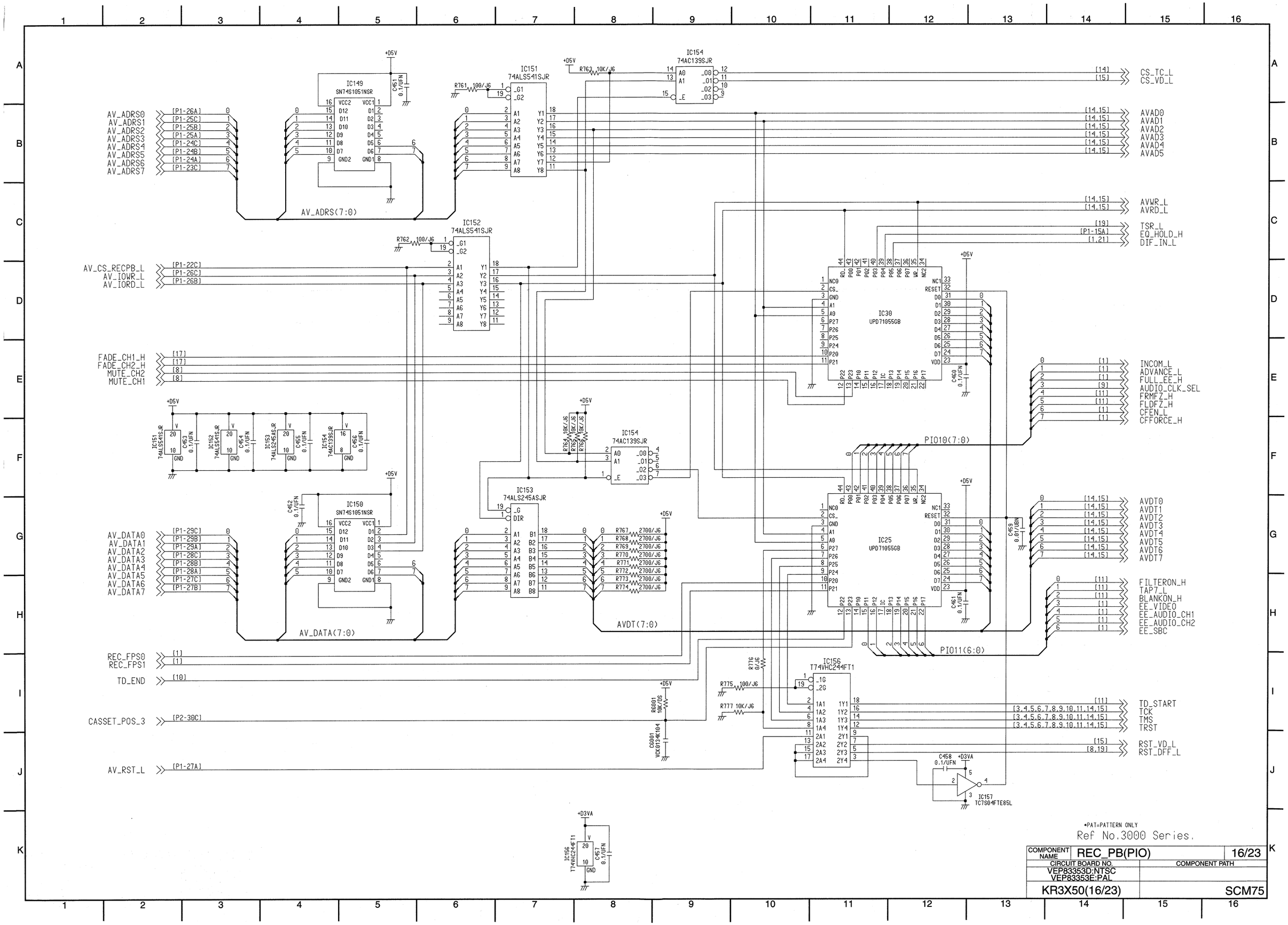
COMPONENT NAME	REC_PB(RECPB_CTRL)	14/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(14/23)	SCM73	



•PAT=PATTERN ONLY

Ref No.3000 Series.

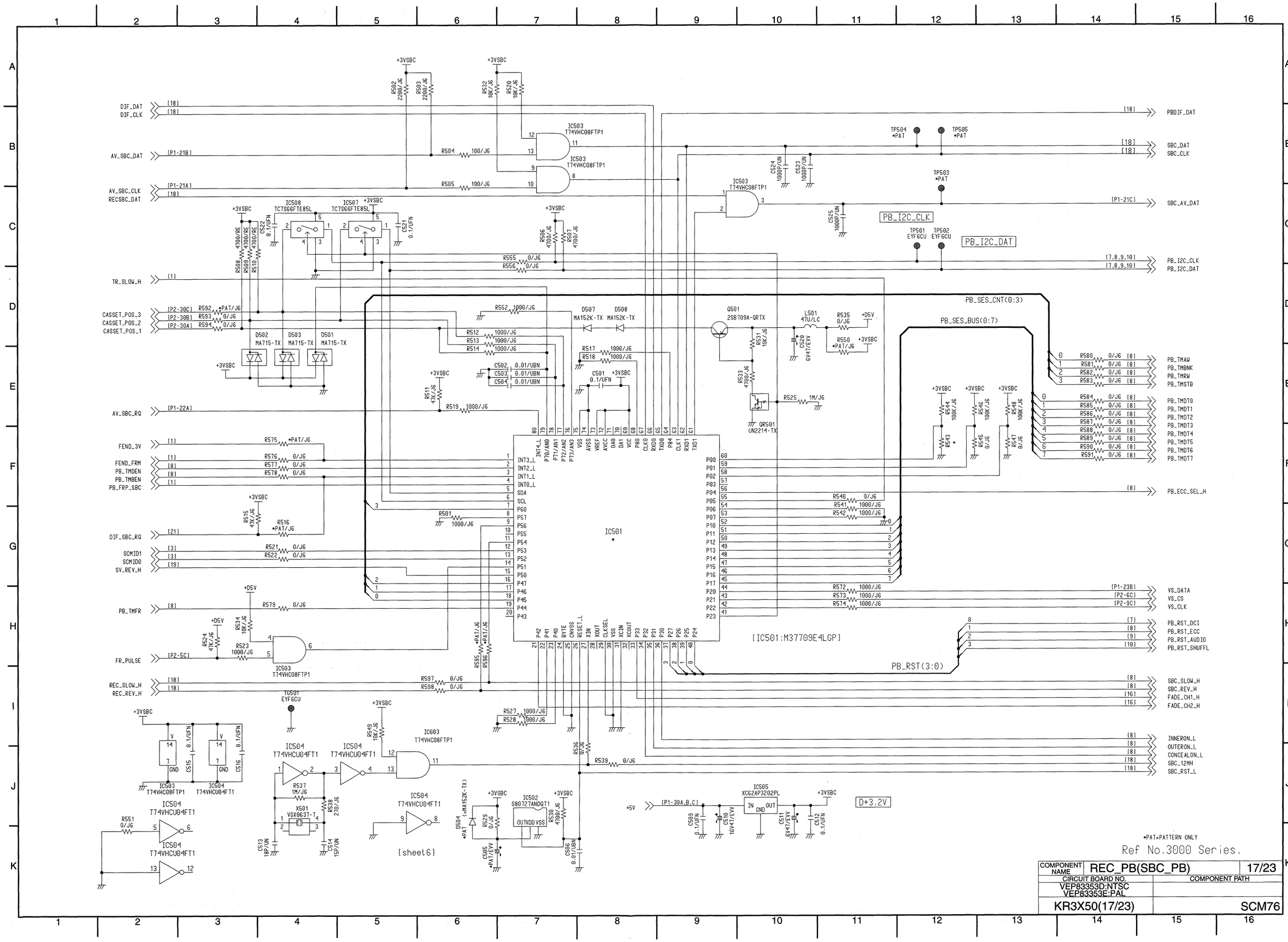
COMPONENT NAME	REC_PB(VIDEO_DATA)	15/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(15/23)		SCM74



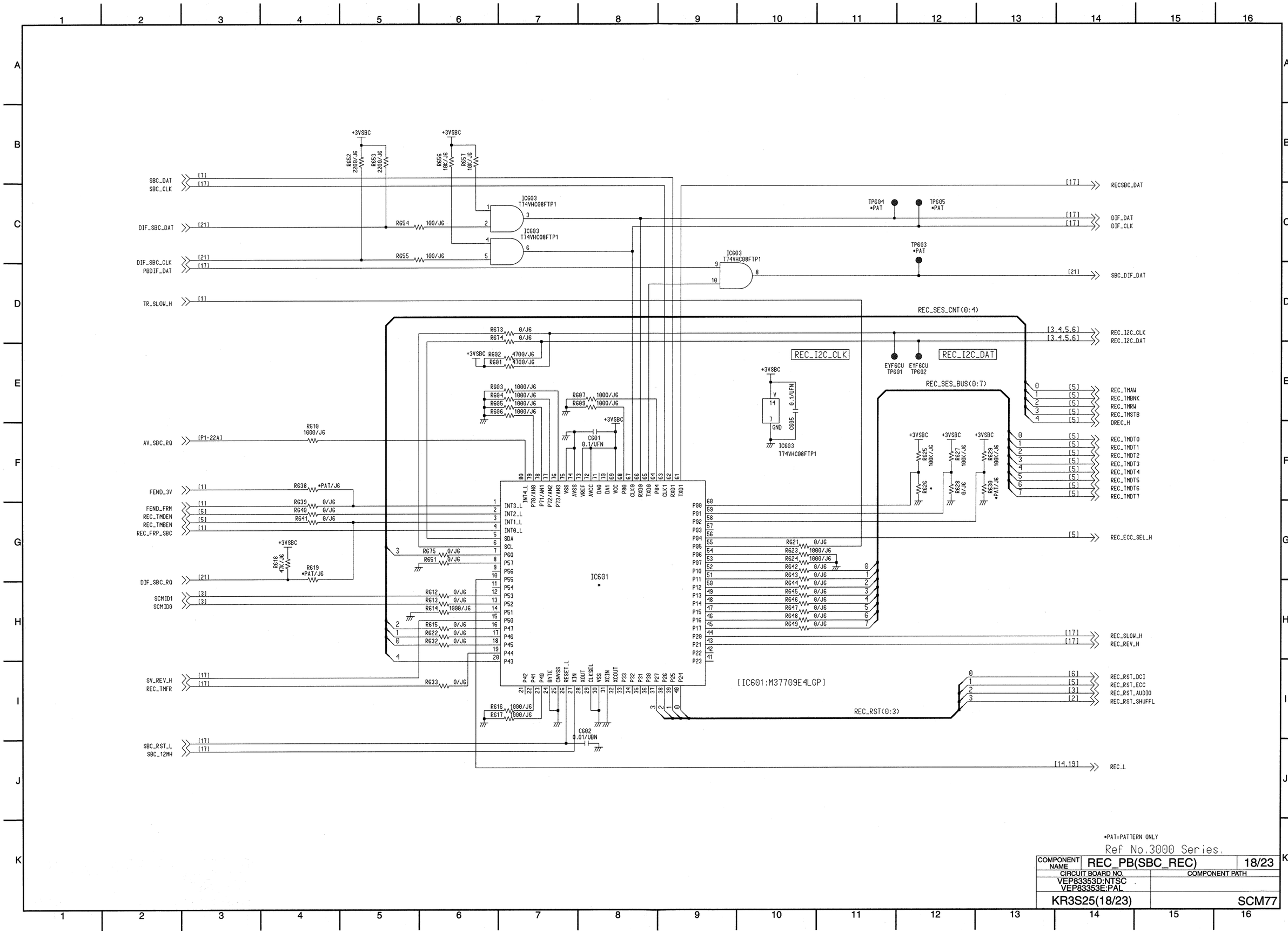
*PAT=PATTERN ONLY

Ref No.3000 Series.

COMPONENT NAME	REC_PB(PIO)	16/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3X50(16/23)		SCM75



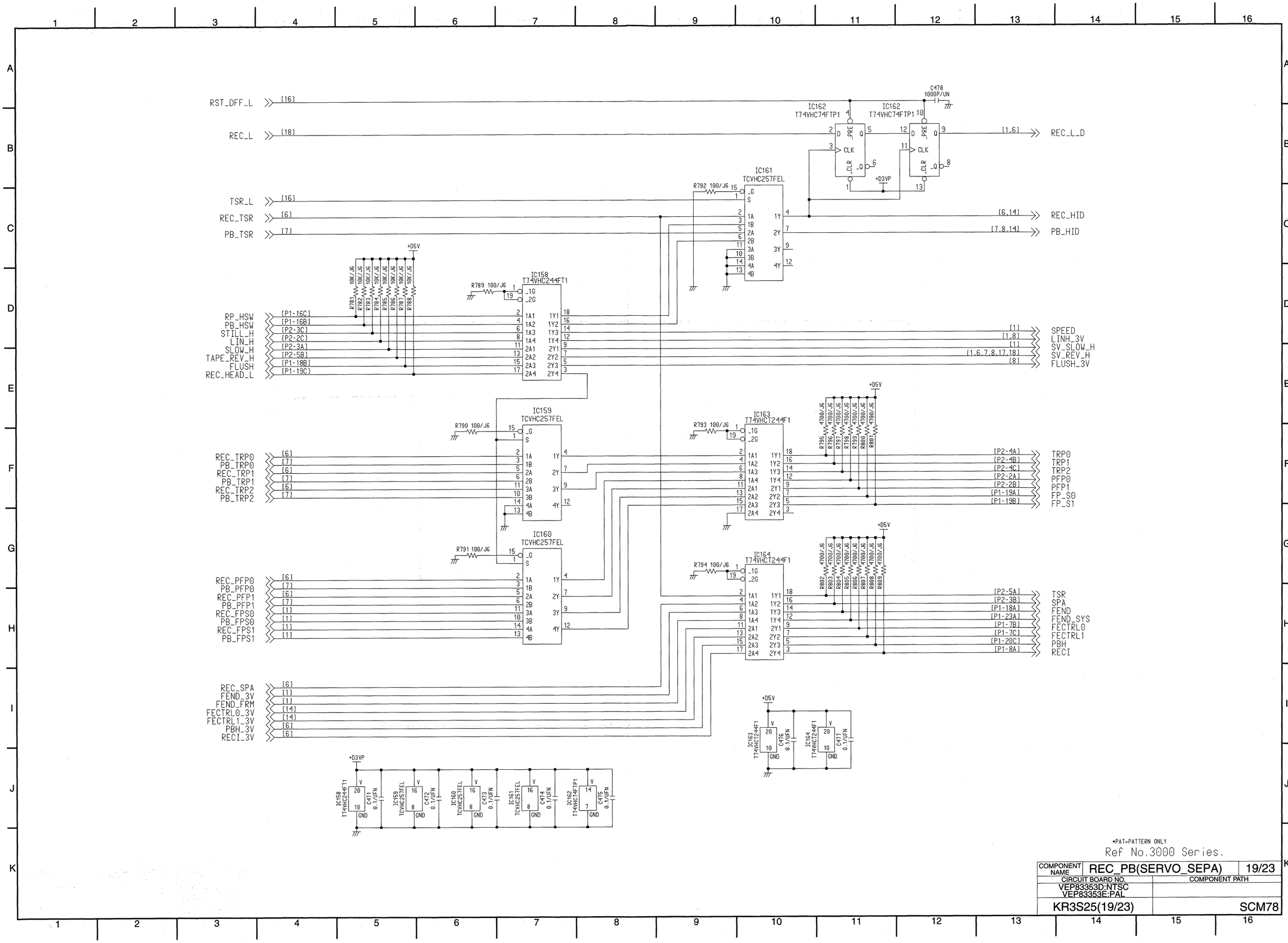
COMPONENT NAME	REC_PB(SBC_PB) 17/23
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL	
KR3X50(17/23)	SCM76



*PAT=PATTERN ONLY

Ref No.3000 Series.

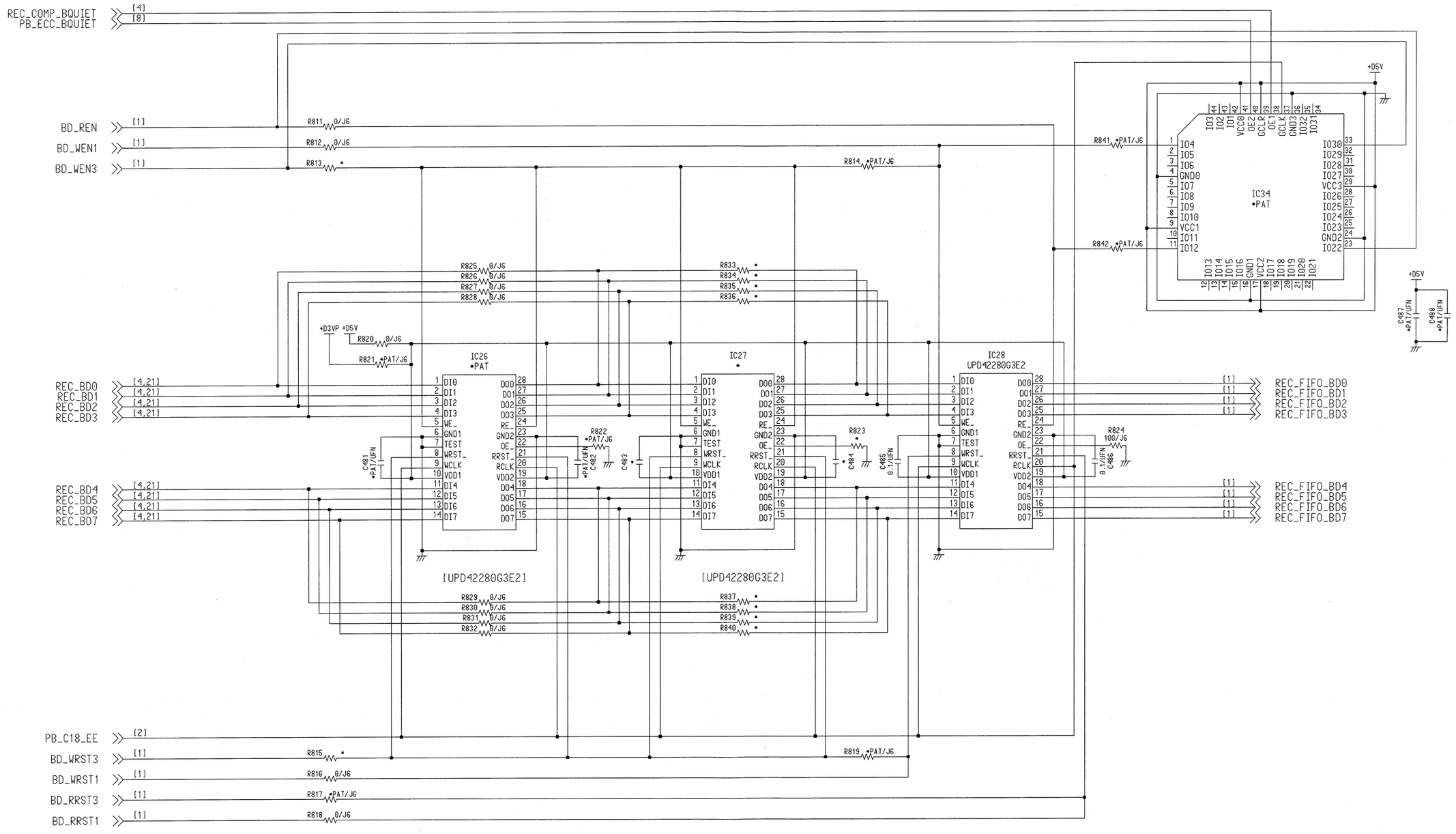
COMPONENT NAME	REC_PB(SBC_REC)	18/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(18/23)		SCM77



*PAT=PATTERN ONLY

Ref No.3000 Series.

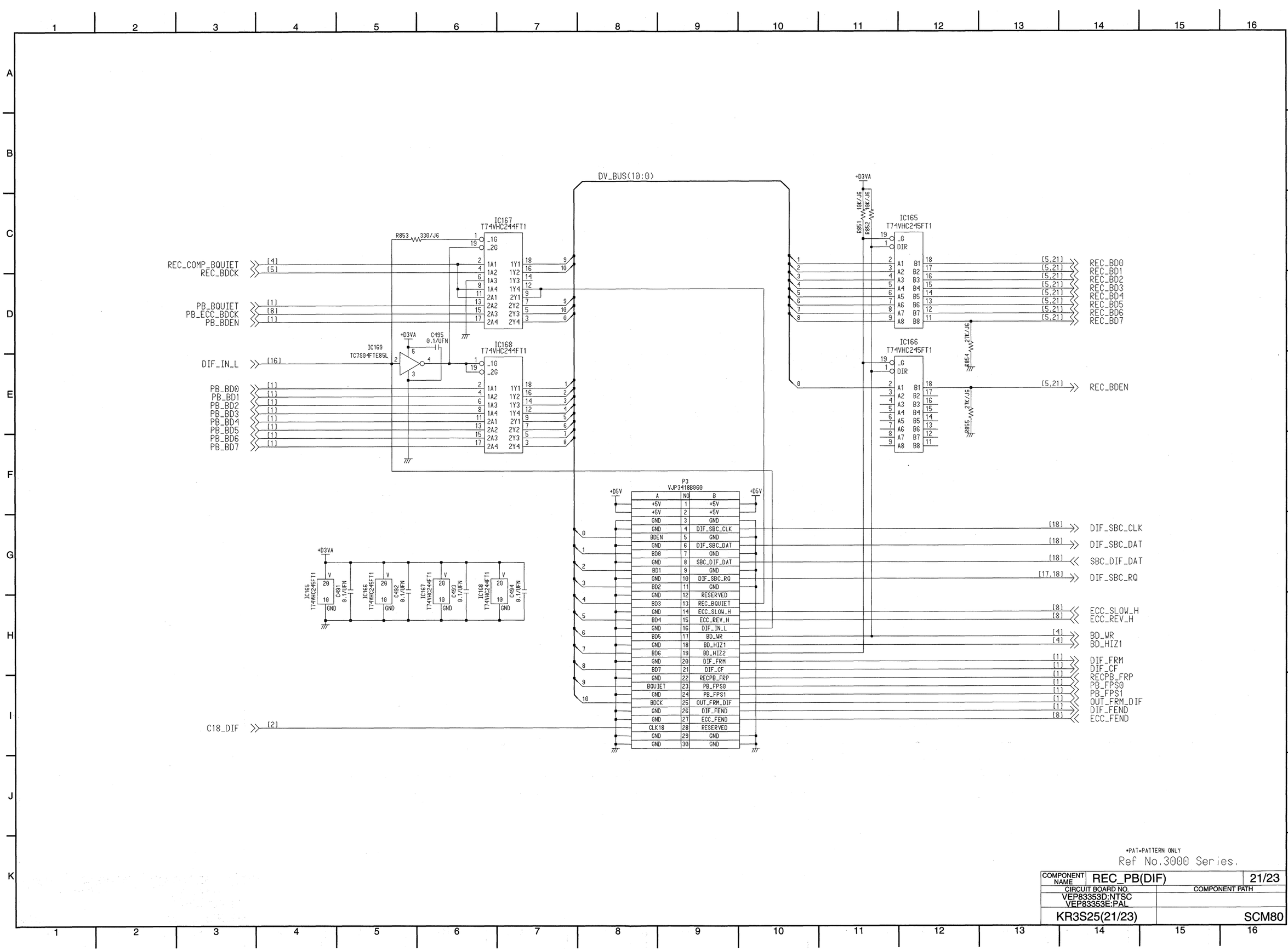
COMPONENT NAME	REC_PB(SERVO_SEPA)	19/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(19/23)		SCM78



*PAT=PATTERN ONLY

Ref No.3000 Series.

COMPONENT NAME	REC_PB(DVC RETERN)	20/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(20/23)		SCM79

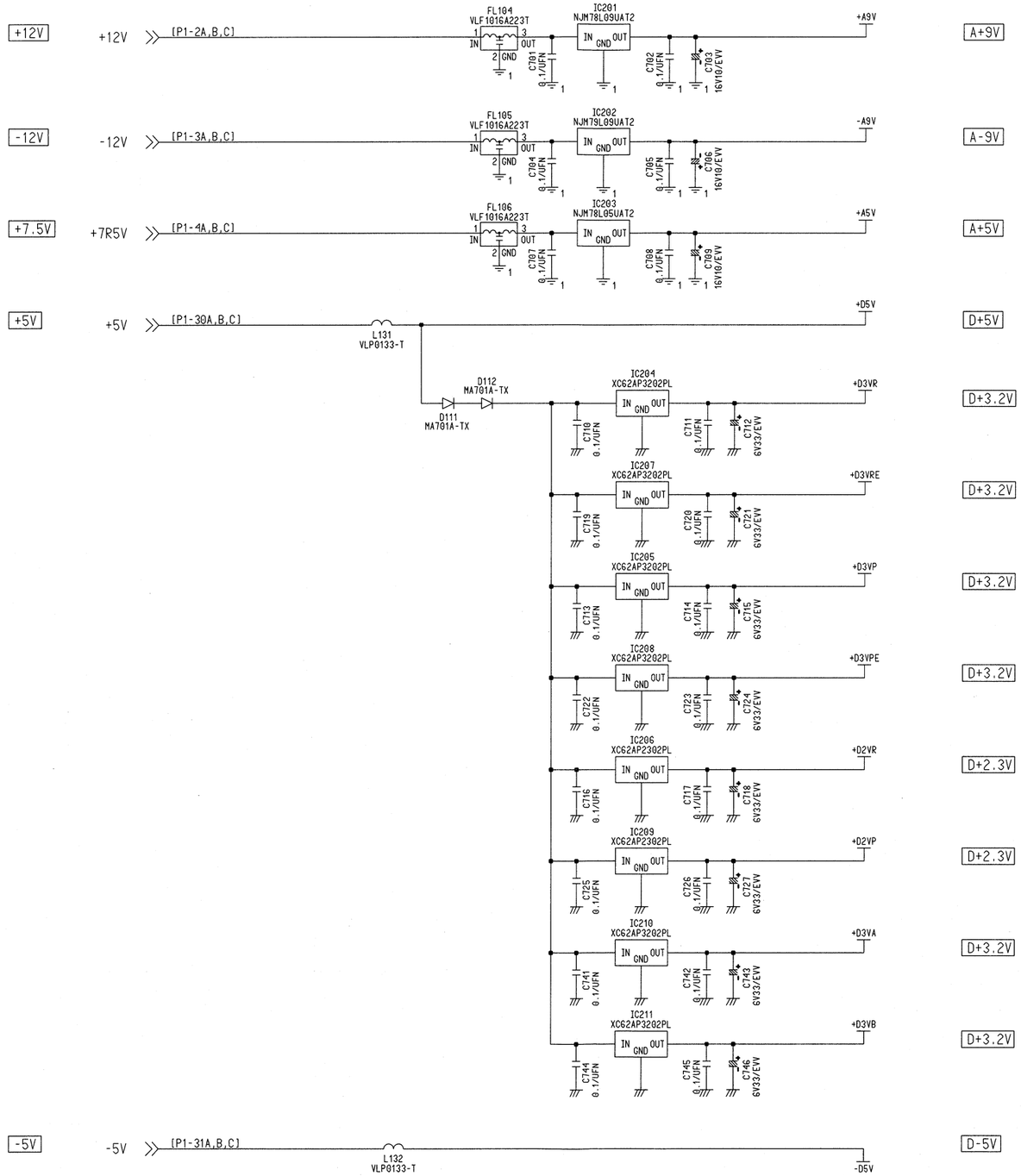


A	NO	B
+5V	1	+5V
+5V	2	+5V
GND	3	GND
GND	4	DIF_SBC_CLK
BDEN	5	GND
GND	6	DIF_SBC_DAT
BD0	7	GND
GND	8	SBC_DIF_DAT
BD1	9	GND
GND	10	DIF_SBC_RQ
BD2	11	GND
GND	12	RESERVED
BD3	13	REC_BQUIET
GND	14	ECC_SLOW_H
BD4	15	ECC_REV_H
GND	16	DIF_IN_L
BD5	17	BD_WR
GND	18	BD_HIZ1
BD6	19	BD_HIZ2
GND	20	DIF_FRM
BD7	21	DIF_CF
GND	22	RECPB_FRP
BQUIET	23	PB_FPS0
GND	24	PB_FPS1
BDCK	25	OUT_FRM_DIF
GND	26	DIF_FEND
GND	27	ECC_FEND
CLK18	28	RESERVED
GND	29	GND
GND	30	GND

*PAT=PATTERN ONLY

Ref No.3000 Series.

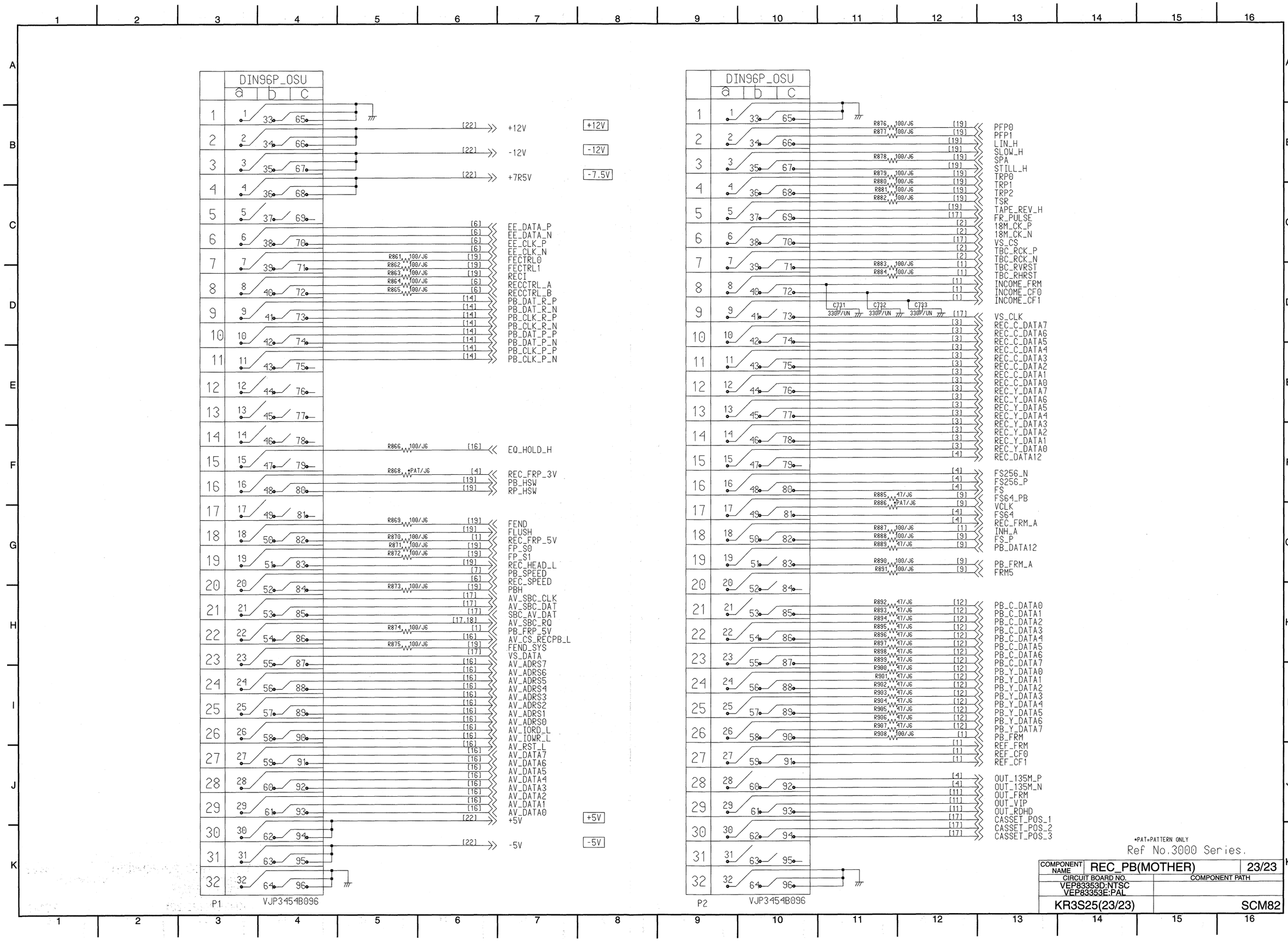
COMPONENT NAME	REC_PB(DIF)	21/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(21/23)		SCM80

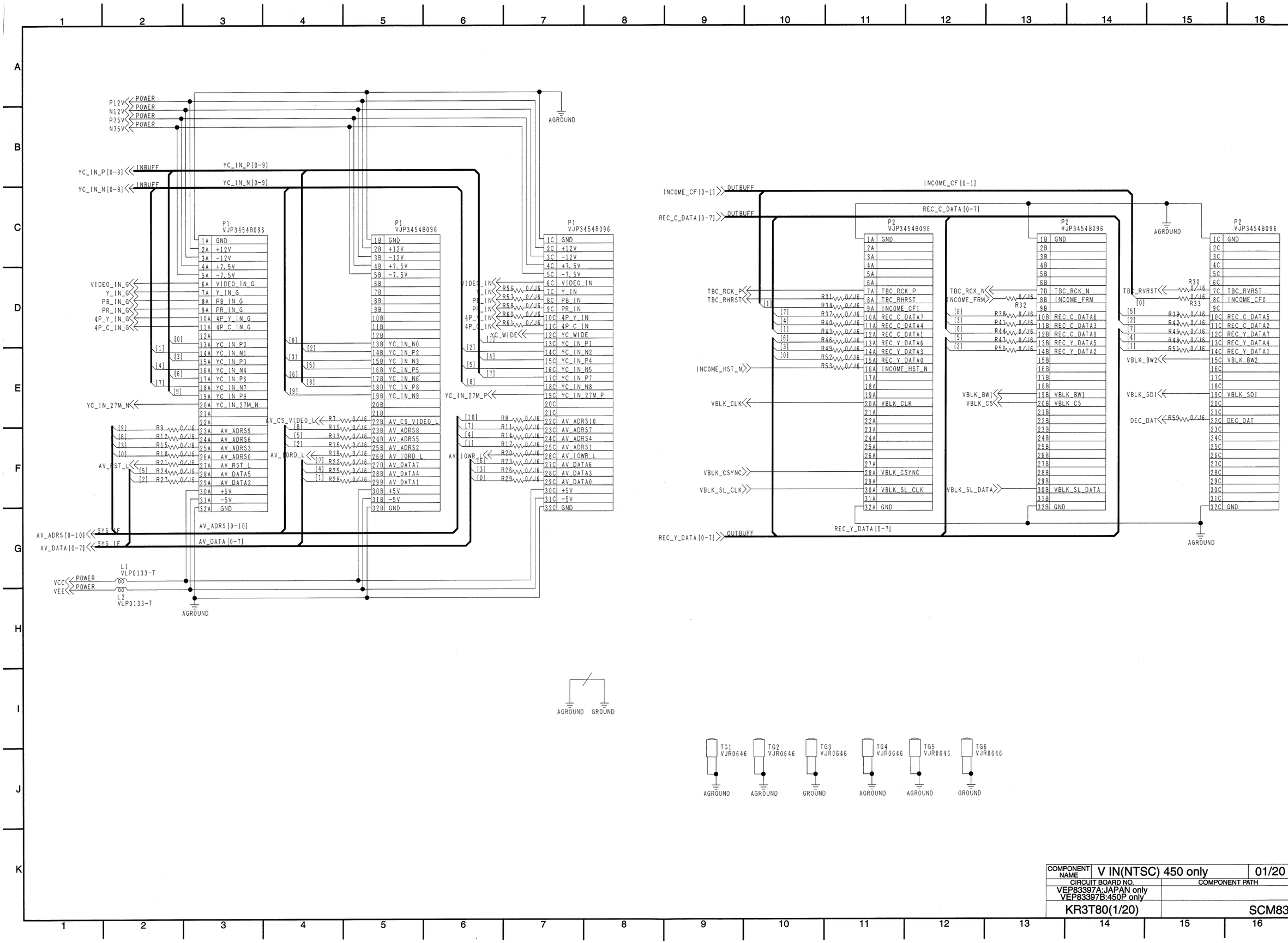


*PAT=PATTERN ONLY

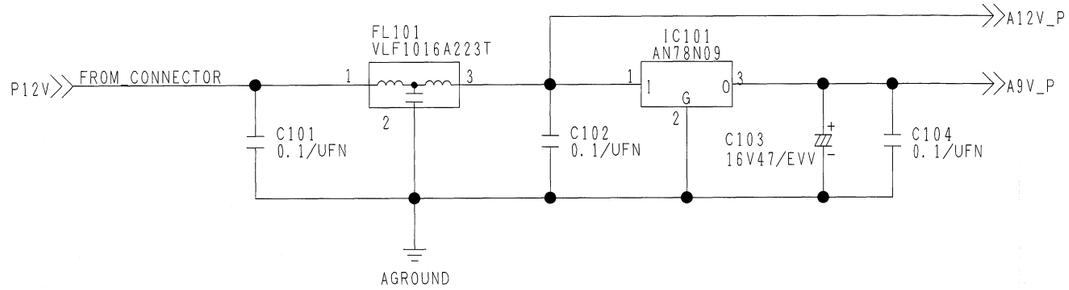
Ref No.3000 Series.

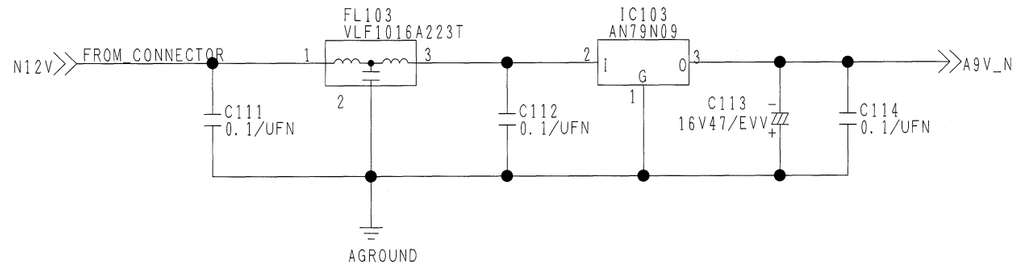
COMPONENT NAME	REC_PB(POWER)	22/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(22/23)		SCM81

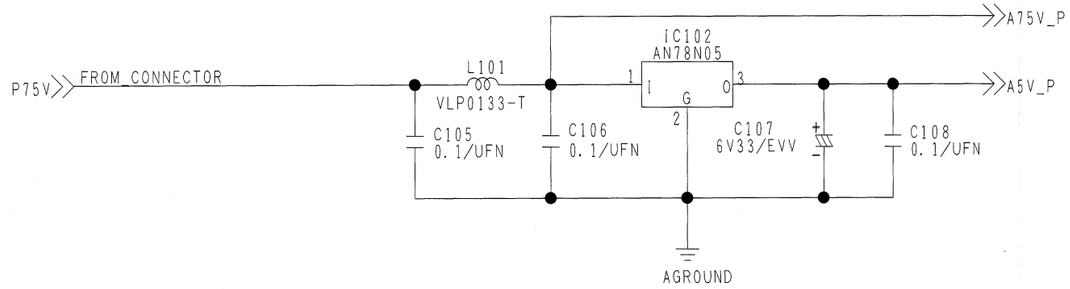

DIN96P_OSU
P1
VJP3454B096
+12V
-12V
+7R5V
+5V
-5V
EE_DATA_P
EE_DATA_N
EE_CLK_P
EE_CLK_N
FECTRL0
FECTRL1
RECI
RECCTRL_A
RECCTRL_B
PB_DAT_R_P
PB_DAT_R_N
PB_CLK_R_P
PB_CLK_R_N
PB_DAT_P_P
PB_DAT_P_N
PB_CLK_P_P
PB_CLK_P_N
EQ_HOLD_H
REC_FRP_3V
PB_HSW
RP_HSW
FEND
FLUSH
REC_FRP_5V
FP_S0
FP_S1
REC_HEAD_L
PB_SPEED
REC_SPEED
PBH
AV_SBC_CLK
AV_SBC_DAT
SBC_AV_DAT
AV_SBC_RQ
PB_FRP_5V
AV_CS_RECPB_L
FEND_SYS
VS_DATA
AV_ADRS7
AV_ADRS6
AV_ADRS5
AV_ADRS4
AV_ADRS3
AV_ADRS2
AV_ADRS1
AV_ADRS0
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_DATA7
AV_DATA6
AV_DATA5
AV_DATA4
AV_DATA3
AV_DATA2
AV_DATA1
AV_DATA0
DIN96P_OSU
P2
VJP3454B096
PFP0
PFP1
LIN_H
SLOW_H
SPA
STILL_H
TRP0
TRP1
TRP2
TSR
TAPE_REV_H
FR_PULSE
18M_CK_P
18M_CK_N
VS_CS
TBC_RCK_P
TBC_RCK_N
TBC_RVRST
TBC_RHRST
INCOME_FRM
INCOME_CF0
INCOME_CF1
VS_CLK
REC_C_DATA7
REC_C_DATA6
REC_C_DATA5
REC_C_DATA4
REC_C_DATA3
REC_C_DATA2
REC_C_DATA1
REC_C_DATA0
REC_Y_DATA7
REC_Y_DATA6
REC_Y_DATA5
REC_Y_DATA4
REC_Y_DATA3
REC_Y_DATA2
REC_Y_DATA1
REC_Y_DATA0
REC_DATA12
FS256_N
FS256_P
FS
FS64_PB
VCLK
FS64
REC_FRM_A
INH_A
FS_P
PB_DATA12
PB_FRM_A
FRM5
PB_C_DATA0
PB_C_DATA1
PB_C_DATA2
PB_C_DATA3
PB_C_DATA4
PB_C_DATA5
PB_C_DATA6
PB_C_DATA7
PB_Y_DATA0
PB_Y_DATA1
PB_Y_DATA2
PB_Y_DATA3
PB_Y_DATA4
PB_Y_DATA5
PB_Y_DATA6
PB_Y_DATA7
PB_FRM
REF_FRM
REF_CF0
REF_CF1
OUT_135M_P
OUT_135M_N
OUT_FRM
OUT_VIP
OUT_RDHD
CASSET_POS_1
CASSET_POS_2
CASSET_POS_3
*PAT=PATTERN ONLY
Ref No.3000 Series.
COMPONENT NAME
REC_PB(MOTHER)
23/23
CIRCUIT BOARD NO.
COMPONENT PATH
VEP83353D:NTSC
VEP83353E:PAL
KR3S25(23/23)
SCM82

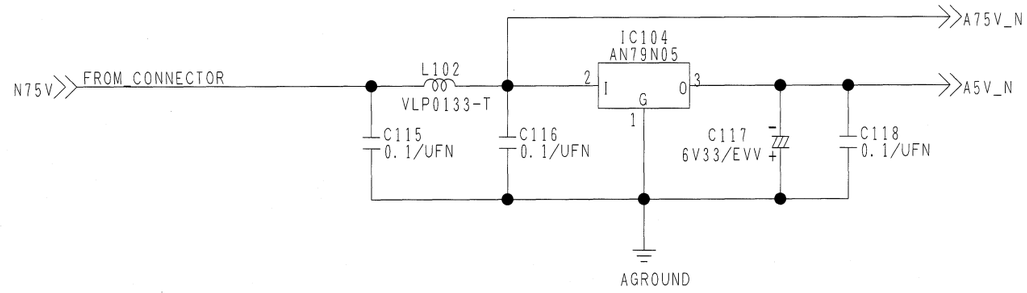


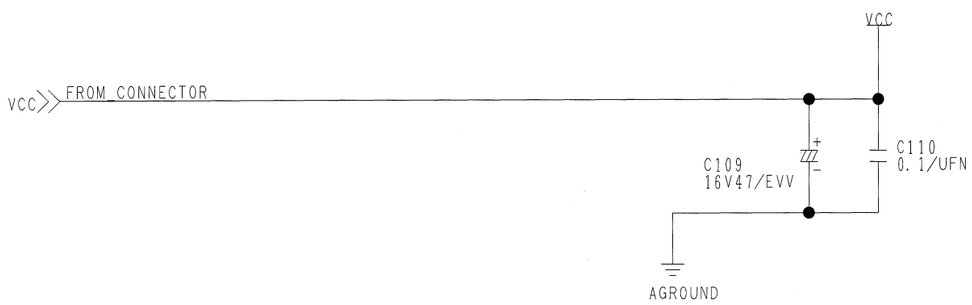
COMPONENT NAME	V IN(NTSC) 450 only	01/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(1/20)		SCM83

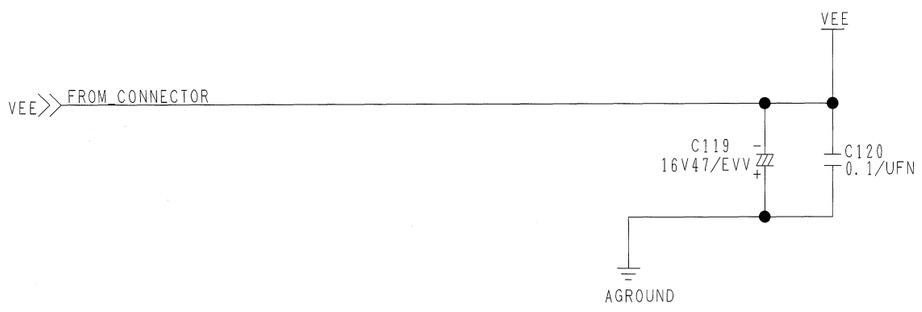




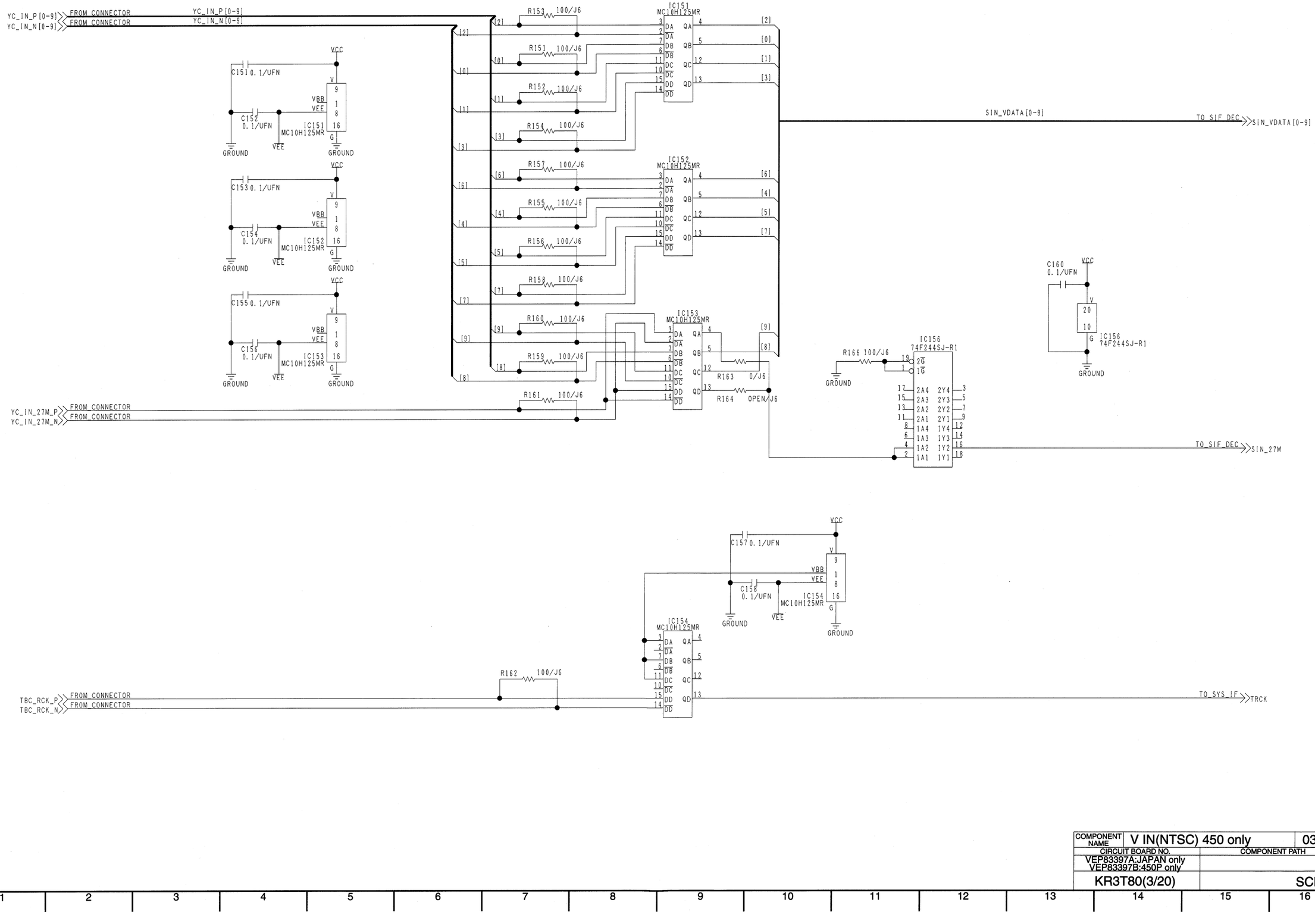








COMPONENT NAME	V IN(NTSC) 450 only	02/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(2/20)		SCM84

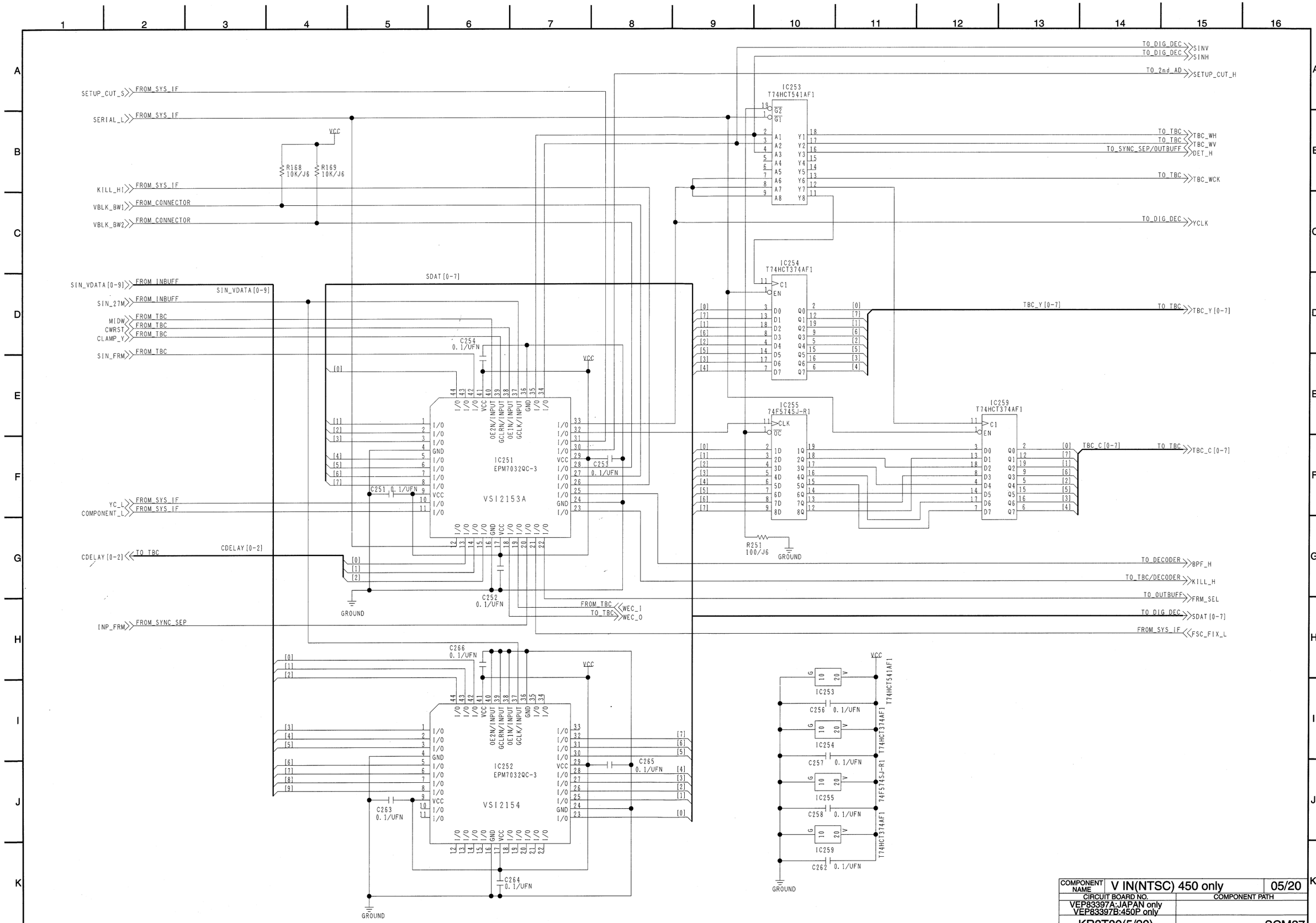


COMPONENT NAME	V IN(NTSC) 450 only	03/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(3/20)		SCM85

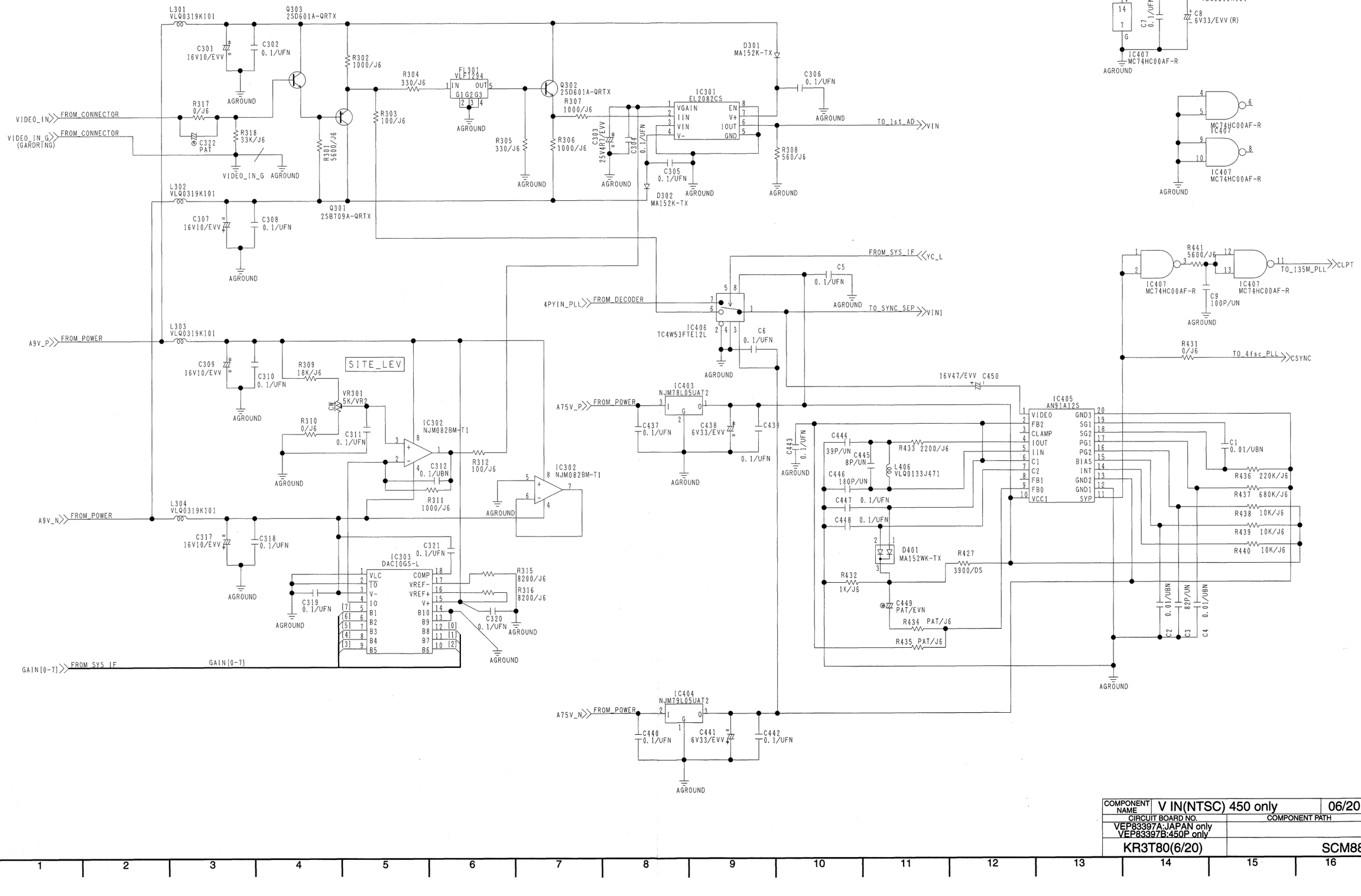
AV_IORD_L FROM_CONNECTOR
AV_IOWR_L FROM_CONNECTOR
AV_RST_L FROM_CONNECTOR
AV_CS_VIDEO_L FROM_CONNECTOR
DEC_DAT FROM_CONNECTOR
AV_ADRS[0-10] FROM_CONNECTOR
AV_ADRS[0-10]
AV_DATA[0-7] FROM_CONNECTOR
AV_DATA[0-7]
VBLK_CS FROM_CONNECTOR
VBLK_CLK FROM_CONNECTOR
VBLK_SDI FROM_CONNECTOR
TRCK FROM_INBUFF
TBC_RVRST FROM_CONNECTOR
TBC_RHRST FROM_CONNECTOR
VCC
R201 10K/J6
R202 10K/J6
R214 100/J6
TO_DECODER I2C_CK
TO_DECODER I2C_DT
C205 0.1/UFN
C201 0.1/UFN
C203 0.1/UFN
C202 0.1/UFN
C204 0.1/UFN
C209 0.1/UFN
C210 0.1/UFN
IC201 EPM7032QC-3
VSI2496
IC210 SN74S1051NSR
IC209 SN74S1051NSR
IC204 74ALS245ASJR
74ALS245ASJR
DIR
G
A1 A2 A3 A4 A5 A6 A7 A8
B1 B2 B3 B4 B5 B6 B7 B8
TO_SLICER S_CS
TO_SLICER S_CLK
TO_SLICER S_SDI
TO_TBC TBC_RCK
TO_TBC TBC_RV
TO_TBC TBC_RH
DATA[0-7]
GROUND
TO_SLICER SL_RST_L
FROM_4fsc_PLL NSTD_H
FROM_4fsc_PLL INSCH_H
FROM_SYNC_SEP BW_L
FROM_SYNC_SEP VIDEO_IN_L
FROM_DECODER NSTD2_H
FROM_CONNECTOR YC_WIDE
QR201 MRN1403TE85R
C211 0.01/UBN
R216 10K/J6
TO_SIF_DEC KILL_HI
TO_SIF_DEC SETUP_CUT_S
IC207 UPD71055GB
IC208 UPD71055GB
R208 10K/J6
R215 100/J6
TO_M2_BCAM M2_L
TO_C_DEM/4fsc_PLL/GAIN_CNTRL/DECODER/SDEC YC_L
TO_2nd_AD/SDEC COMPONENT_L
TO_135PLL/SDEC/TBC/DIG_DEC SERIAL_L
TO_4fsc_PLL/SIF_DEC FSC_FIX_L
TO_SYNC_SEP NTSC_H
TO_SYNC_SEP FRM_DET
INP_LEVEL[0-4]
FROM_TBC INP_LEVEL[0-4]
GAIN[0-7]
TO_GAIN_CNTRL GAIN[0-7]

COMPONENT NAME	V IN(NTSC) 450 only
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only	
KR3T80(4/20)	SCM86

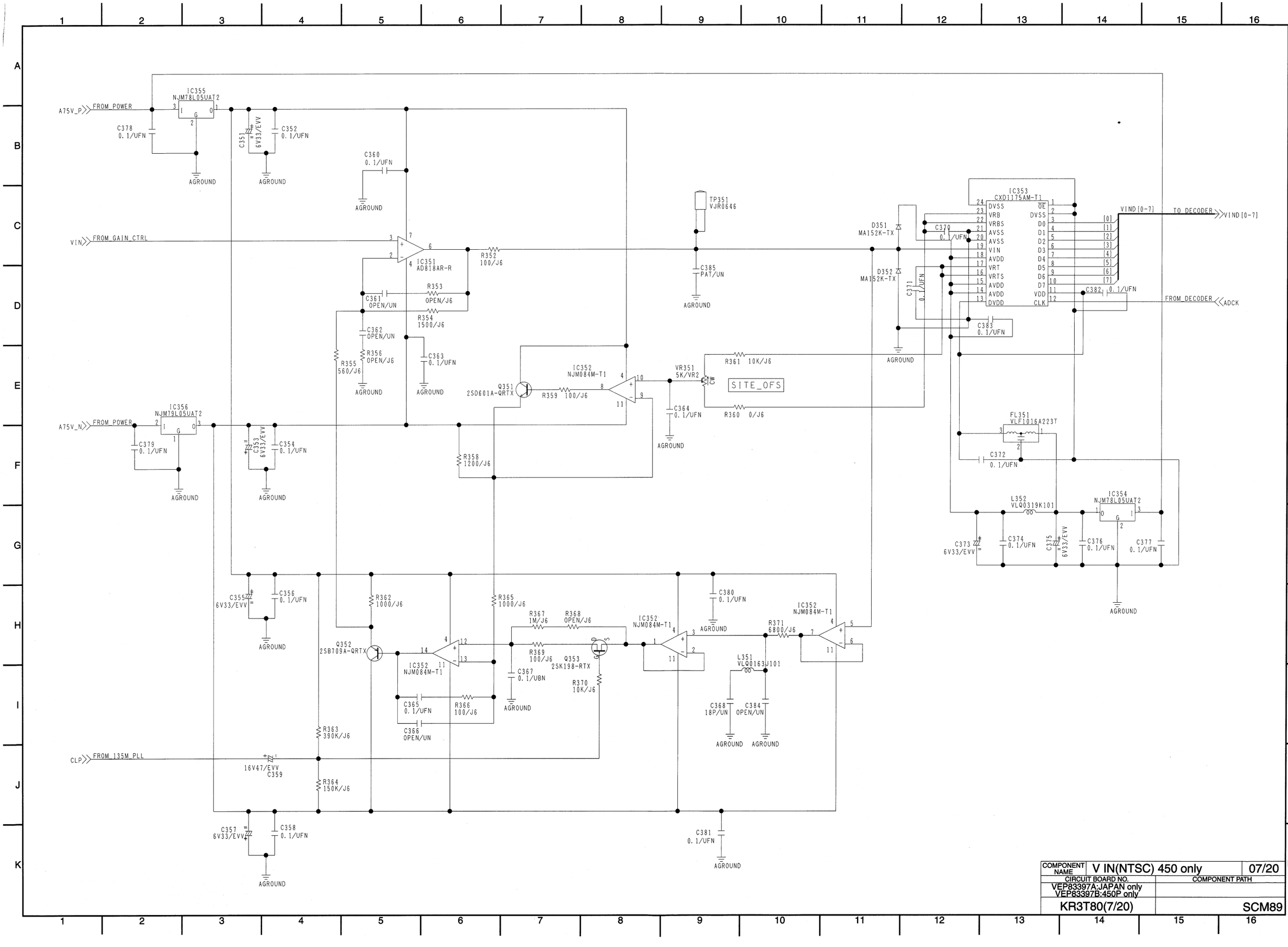
04/20



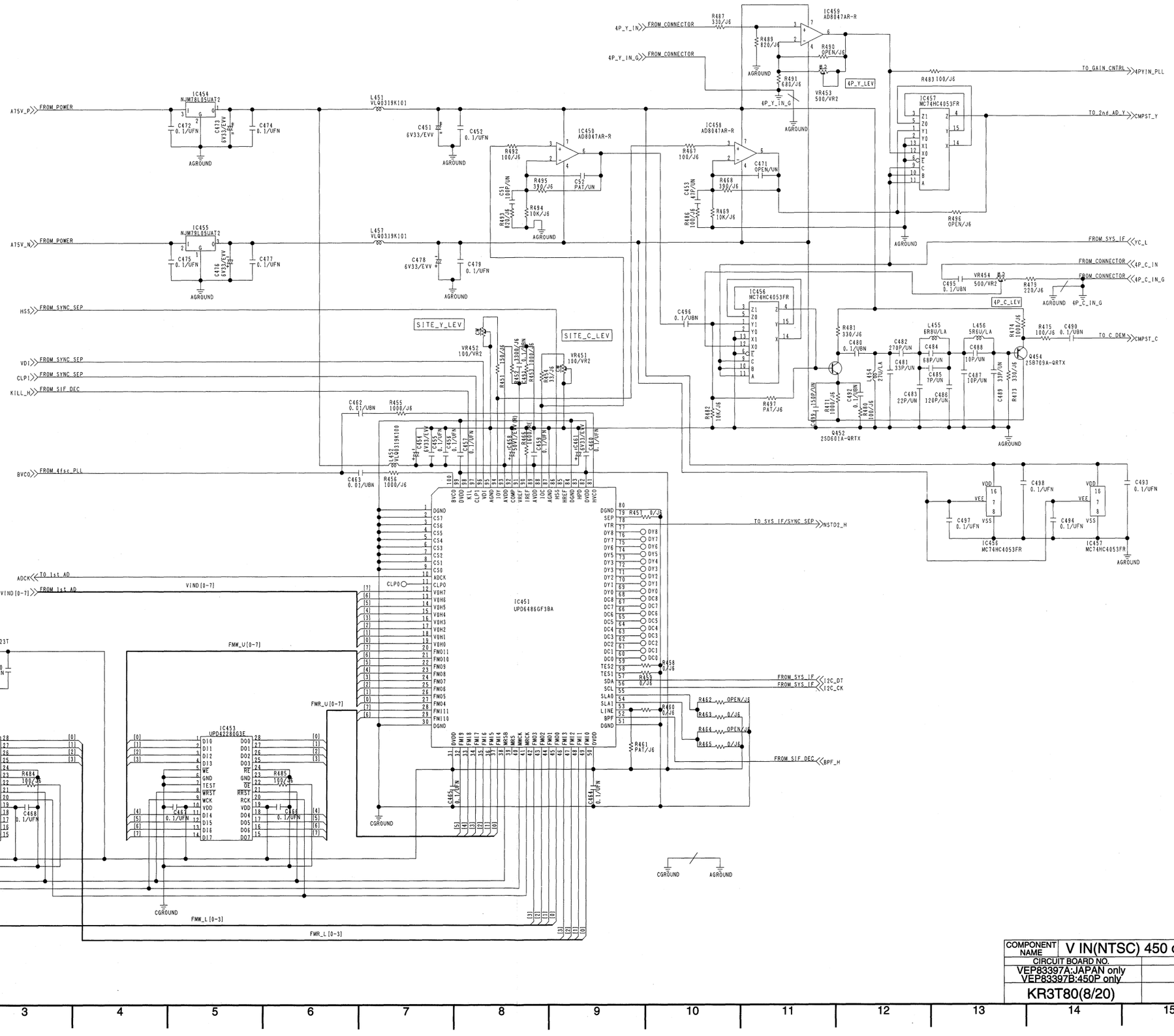
COMPONENT NAME	V IN(NTSC) 450 only	05/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(5/20)		SCM87



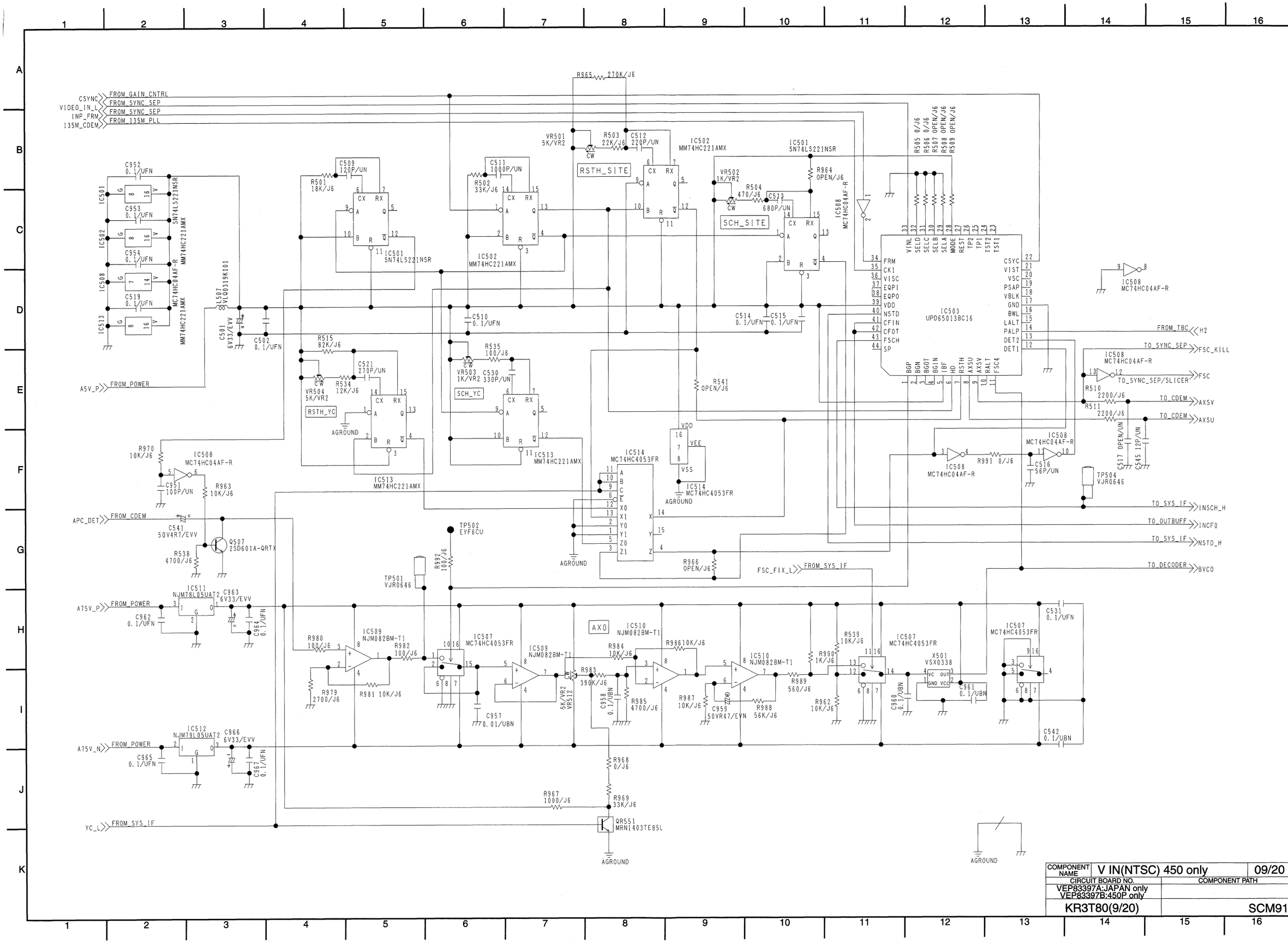
COMPONENT NAME	V IN(NTSC) 450 only	06/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(6/20)		SCM88



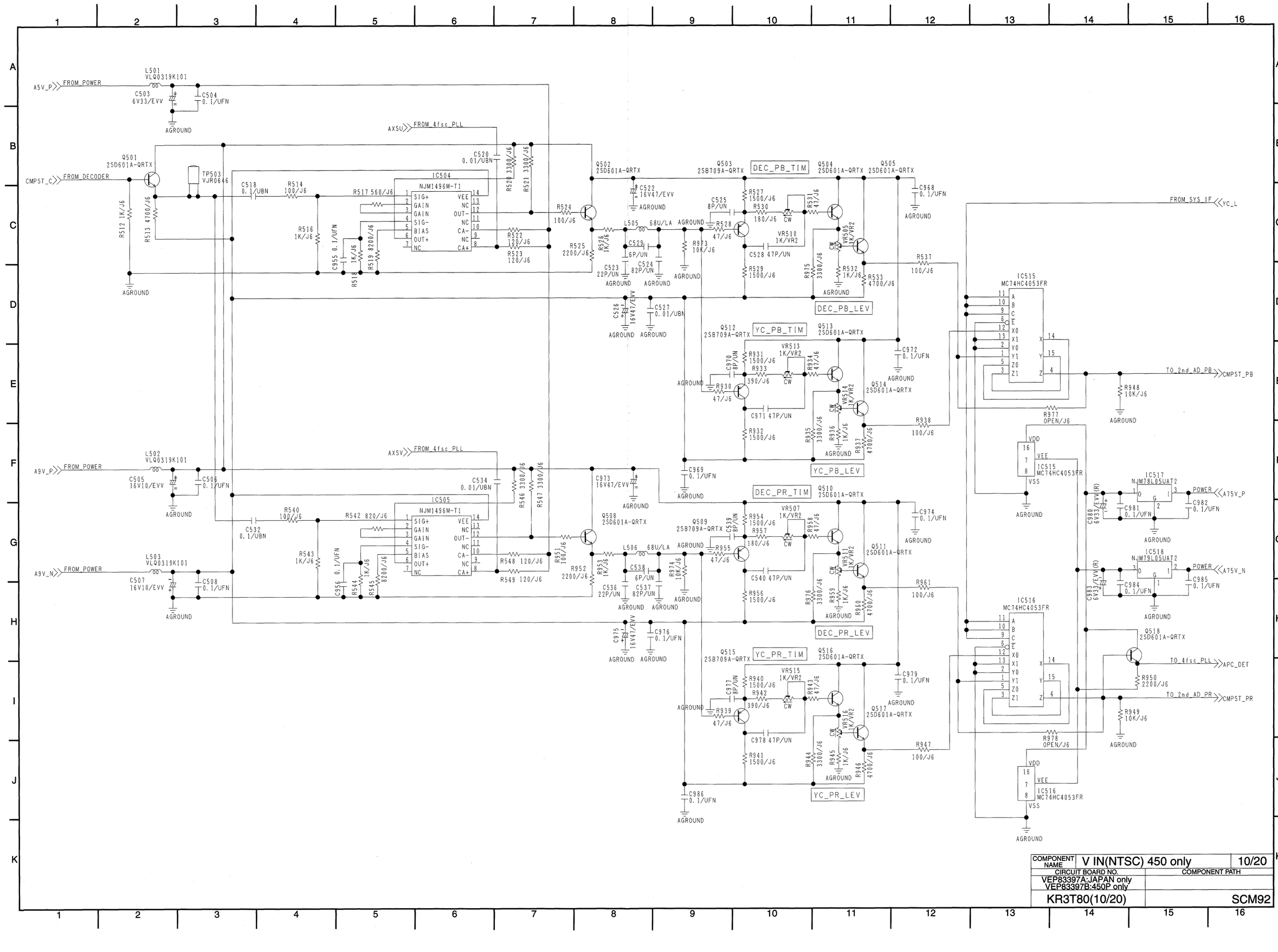
COMPONENT NAME	V IN(NTSC) 450 only	07/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(7/20)		SCM89



COMPONENT NAME	V IN(NTSC) 450 only	08/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(8/20)		SCM90

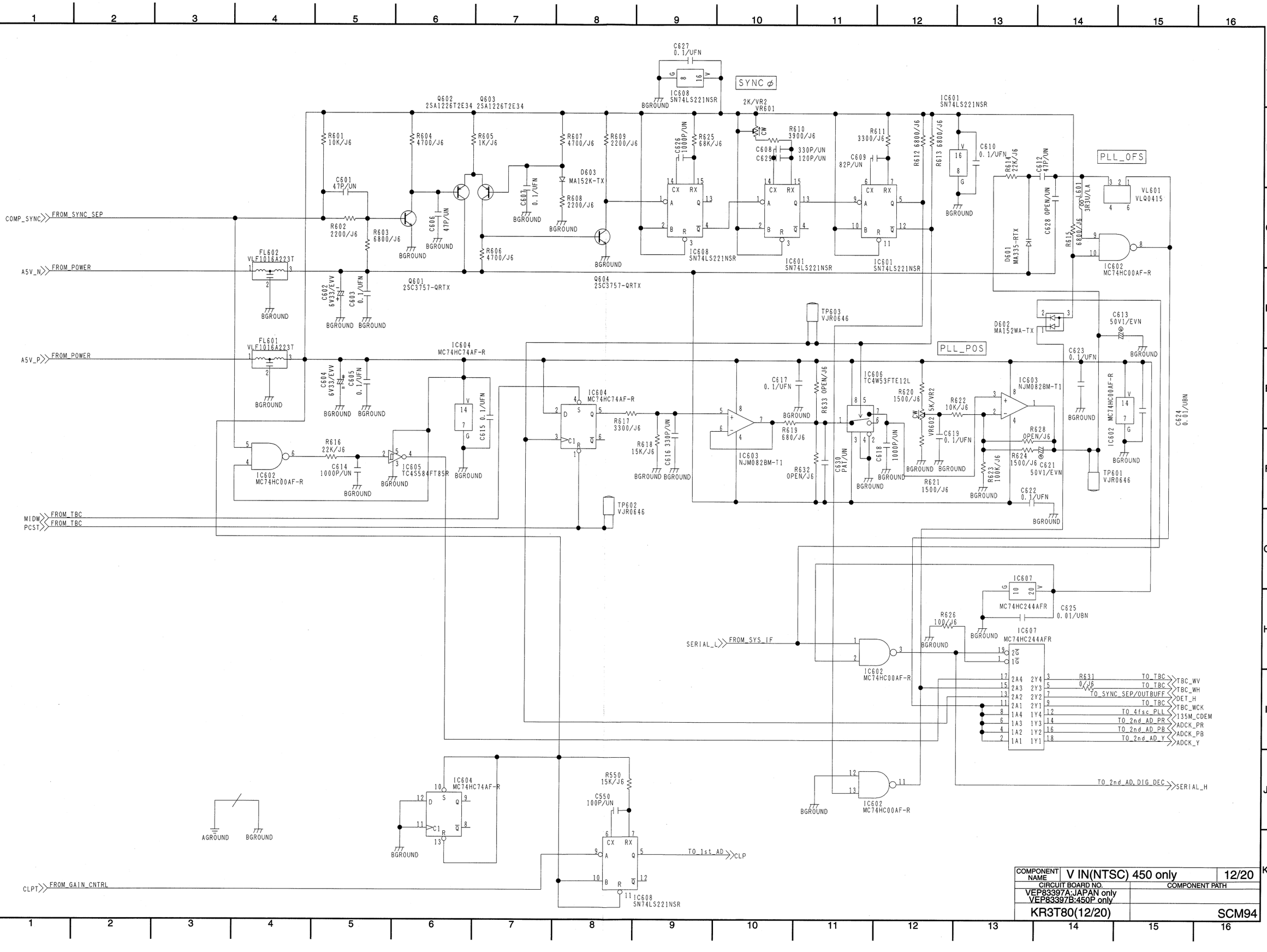


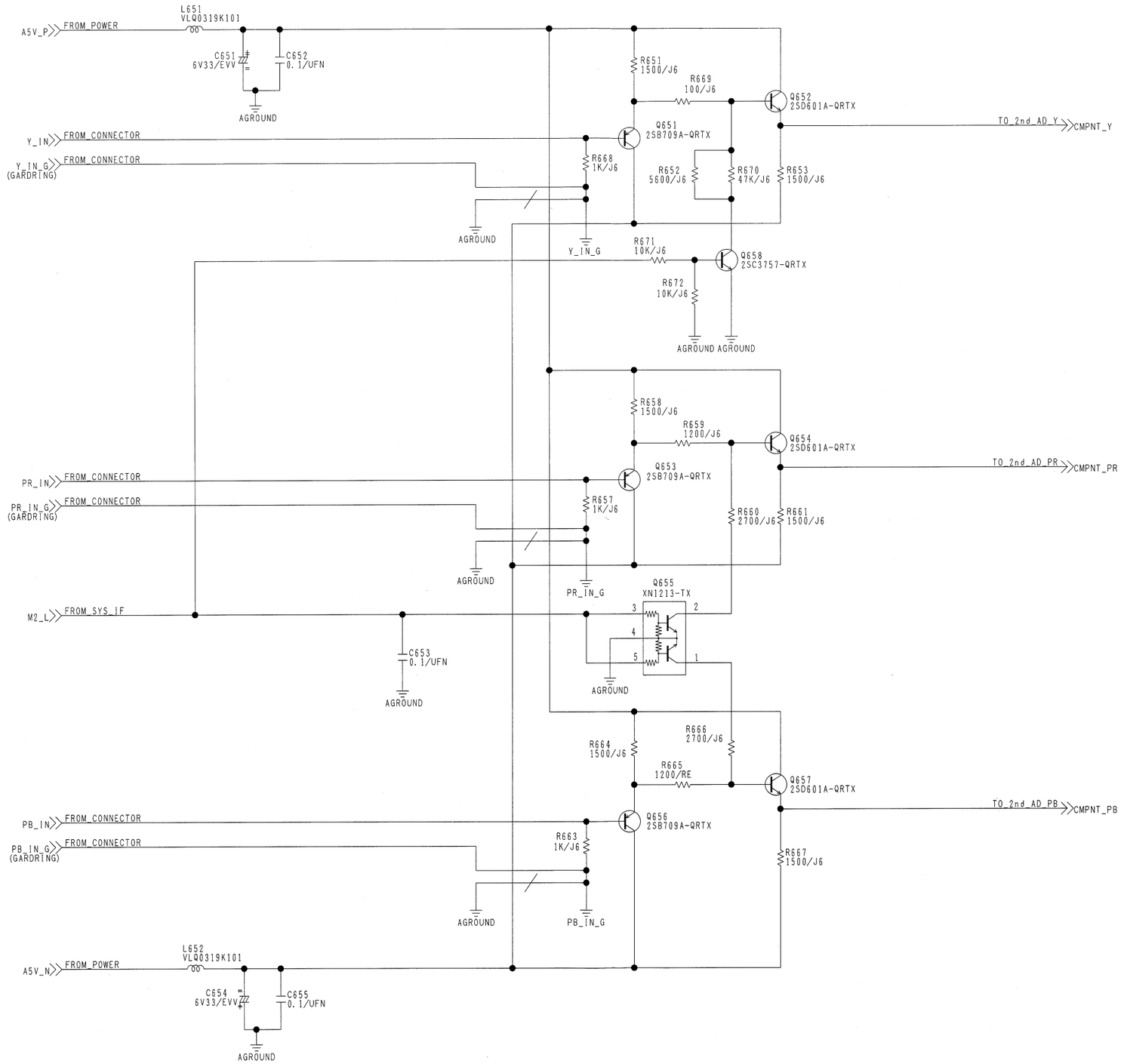
COMPONENT NAME	V IN(NTSC) 450 only	09/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(9/20)		SCM91



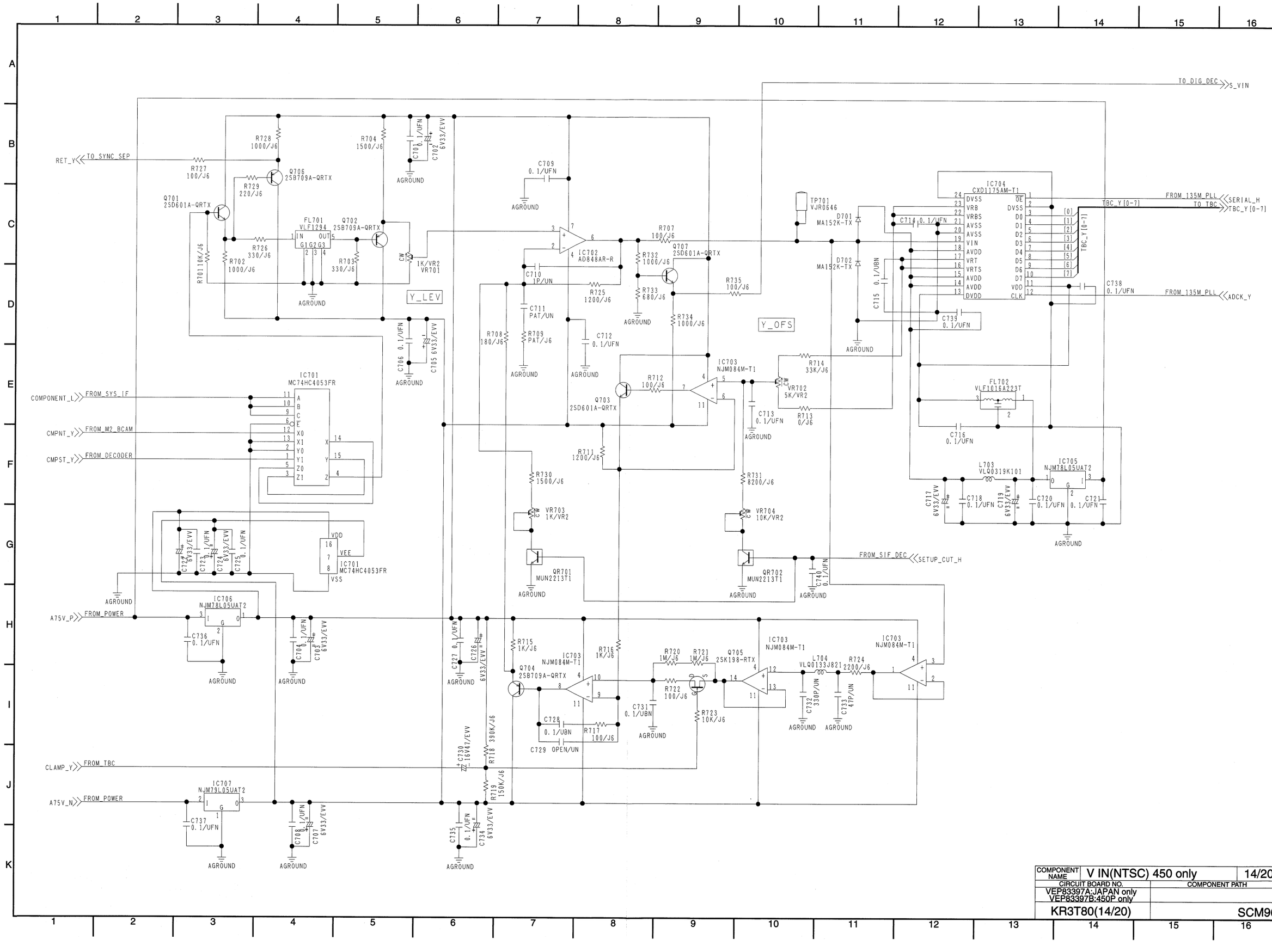
COMPONENT NAME	V IN(NTSC) 450 only	10/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(10/20)		SCM92

COMPONENT NAME	V IN(NTSC) 450 only	11/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(11/20)		SCM93

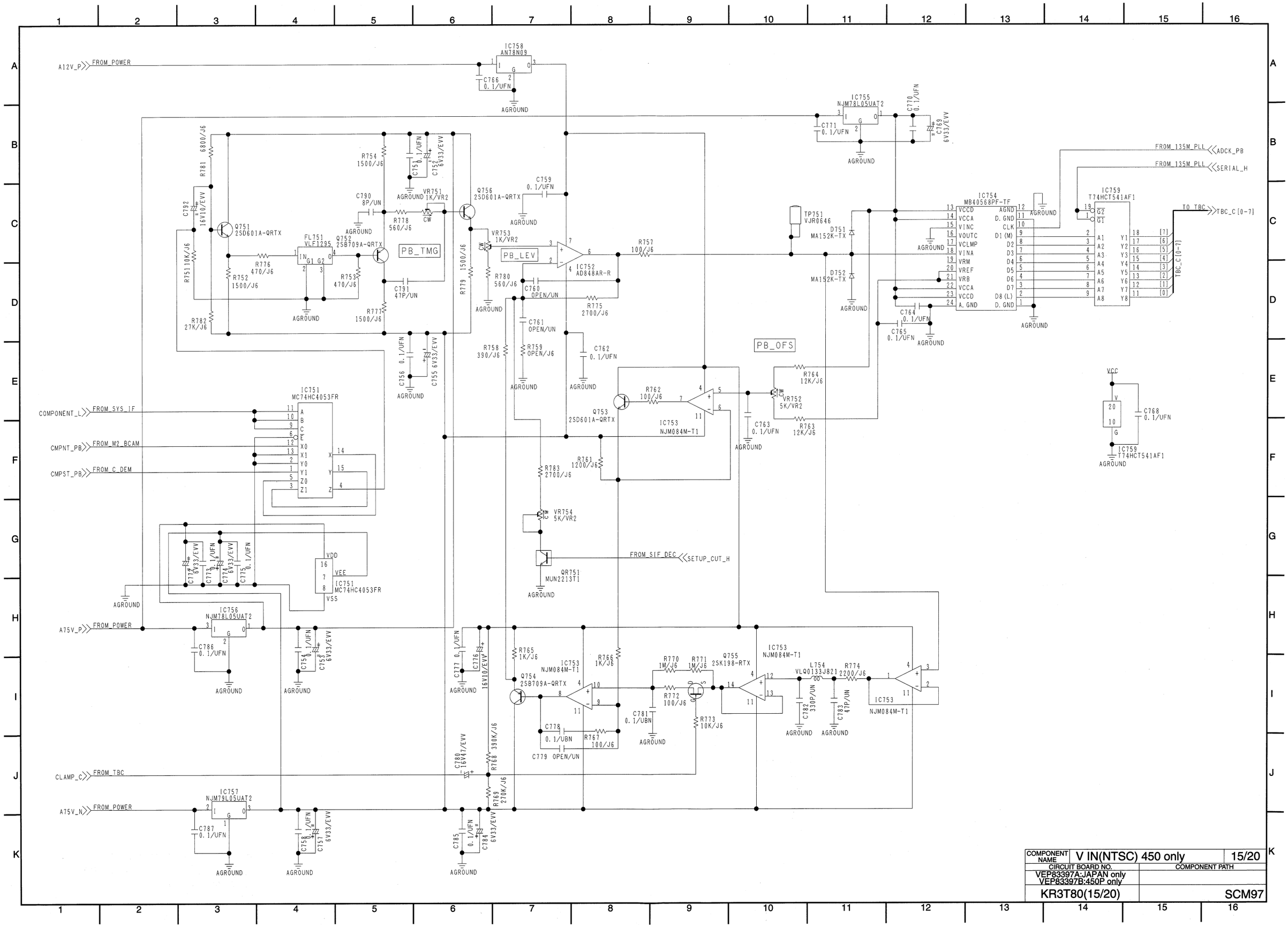

SYNC φ
PLL_OFS
PLL_POS
COMP_SYNC
FROM_SYNC_SEP
A5V_N
FROM_POWER
A5V_P
FROM_POWER
MIDW
FROM_TBC
PCST
FROM_TBC
CLPT
FROM_GAIN_CNTRL
SERIAL_L
FROM_SYS_IF
TO_1st_AD
CLP
TO_2nd_AD_DIG_DEC
SERIAL_H
TO_TBC
TBC_WV
TBC_WH
TO_SYNC_SEP/OUTBUFF
DET_H
TBC_WCK
TO_4fsc_PLL
135M_CDEM
TO_2nd_AD_PR
ADCK_PR
TO_2nd_AD_PB
ADCK_PB
TO_2nd_AD_Y
ADCK_Y
IC608 SN74LS221NSR
IC601 SN74LS221NSR
IC602 MC74HC00AF-R
IC603 NJM082BM-T1
IC604 MC74HC74AF-R
IC605 TC4S584FT85R
IC606 TC4W53FTE12L
IC607 MC74HC244AFR
Q602 2SA1226T2E34
Q603 2SA1226T2E34
Q601 2SC3757-QRTX
Q604 2SC3757-QRTX
D601 MA335-RTX
D602 MA152WA-TX
D603 MA152K-TX
VL601 VLQ0415
TP601 VJR0646
TP602 VJR0646
TP603 VJR0646
2K/VR2 VR601
VR602 5K/VR2
BGROUND
AGROUND
R601 10K/J6
R602 2200/J6
R603 6800/J6
R604 4700/J6
R605 1K/J6
R606 4700/J6
R607 4700/J6
R608 2200/J6
R609 2200/J6
R610 3900/J6
R611 3300/J6
R612 6800/J6
R613 6800/J6
R614 22K/J6
R615 6800/J6
R616 22K/J6
R617 3300/J6
R618 15K/J6
R619 680/J6
R620 1500/J6
R621 1500/J6
R622 10K/J6
R623 100/J6
R624 1500/J6
R625 68K/J6
R626 100/J6
R627 100/J6
R628 OPEN/J6
R631 0/J6
R632 OPEN/J6
R633 OPEN/J6
R550 15K/J6
C601 47P/UN
C602 6V33/EVV
C603 0.1/UFN
C604 6V33/EVV
C605 0.1/UFN
C606 47P/UN
C607 0.1/UFN
C608 330P/UN
C609 82P/UN
C610 0.1/UFN
C611 3R3U/LA
C612 47P/UN
C613 50V1/EVN
C614 1000P/UN
C615 0.1/UFN
C616 330P/UN
C617 0.1/UFN
C618 1000P/UN
C619 0.1/UFN
C621 50V1/EVN
C622 0.1/UFN
C623 0.1/UFN
C624 0.01/UBN
C625 0.01/UBN
C626 1000P/UN
C627 0.1/UFN
C628 OPEN/UN
C629 120P/UN
C630 PAT/UN
FL601 VLF1016A223T
FL602 VLF1016A223T
COMPONENT NAME
V IN(NTSC) 450 only
12/20
CIRCUIT BOARD NO.
COMPONENT PATH
VEP83397A:JAPAN only
VEP83397B:450P only
KR3T80(12/20)
SCM94



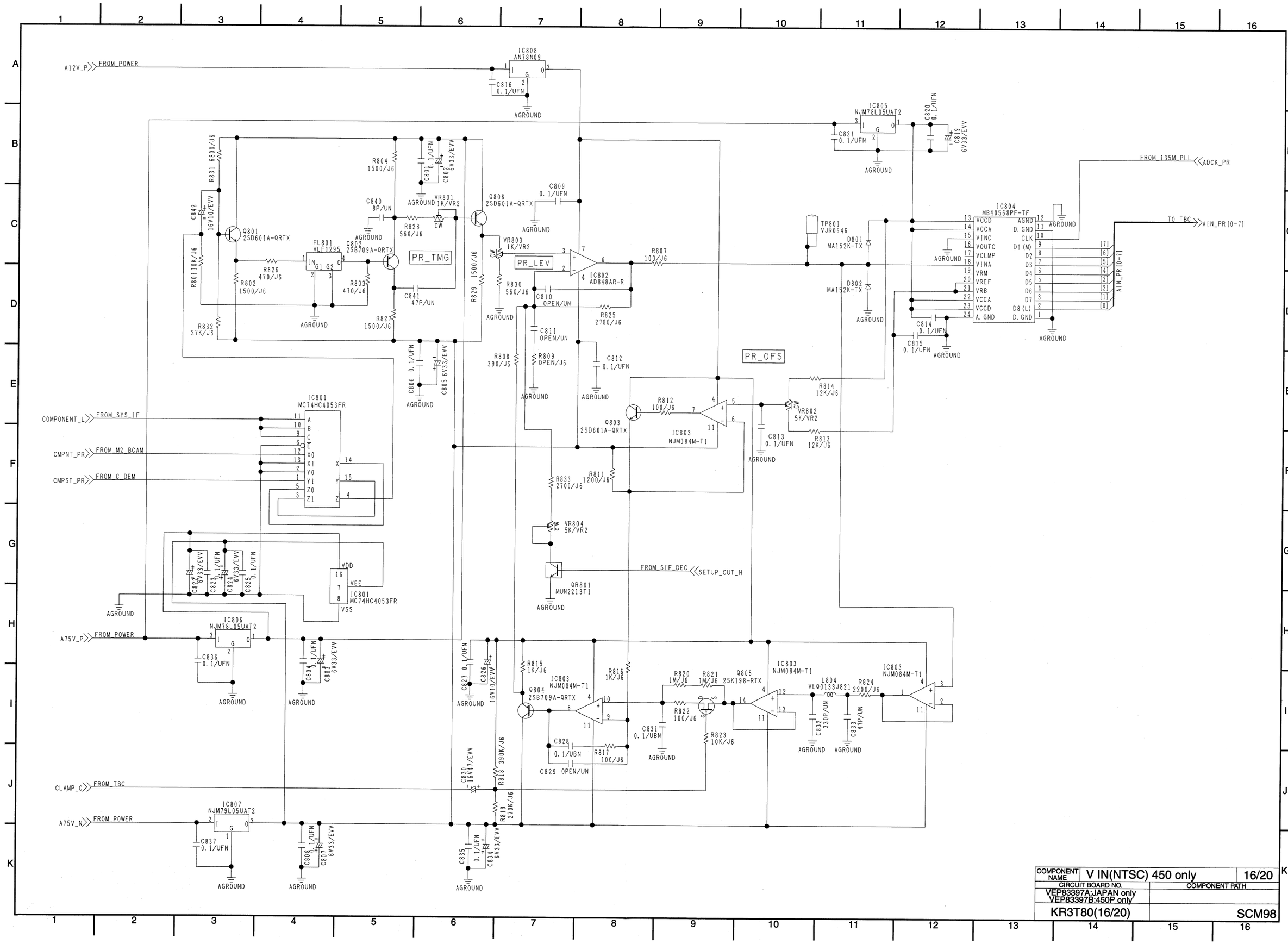
COMPONENT NAME	V IN(NTSC) 450 only 13/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only	
KR3T80(13/20)	SCM95



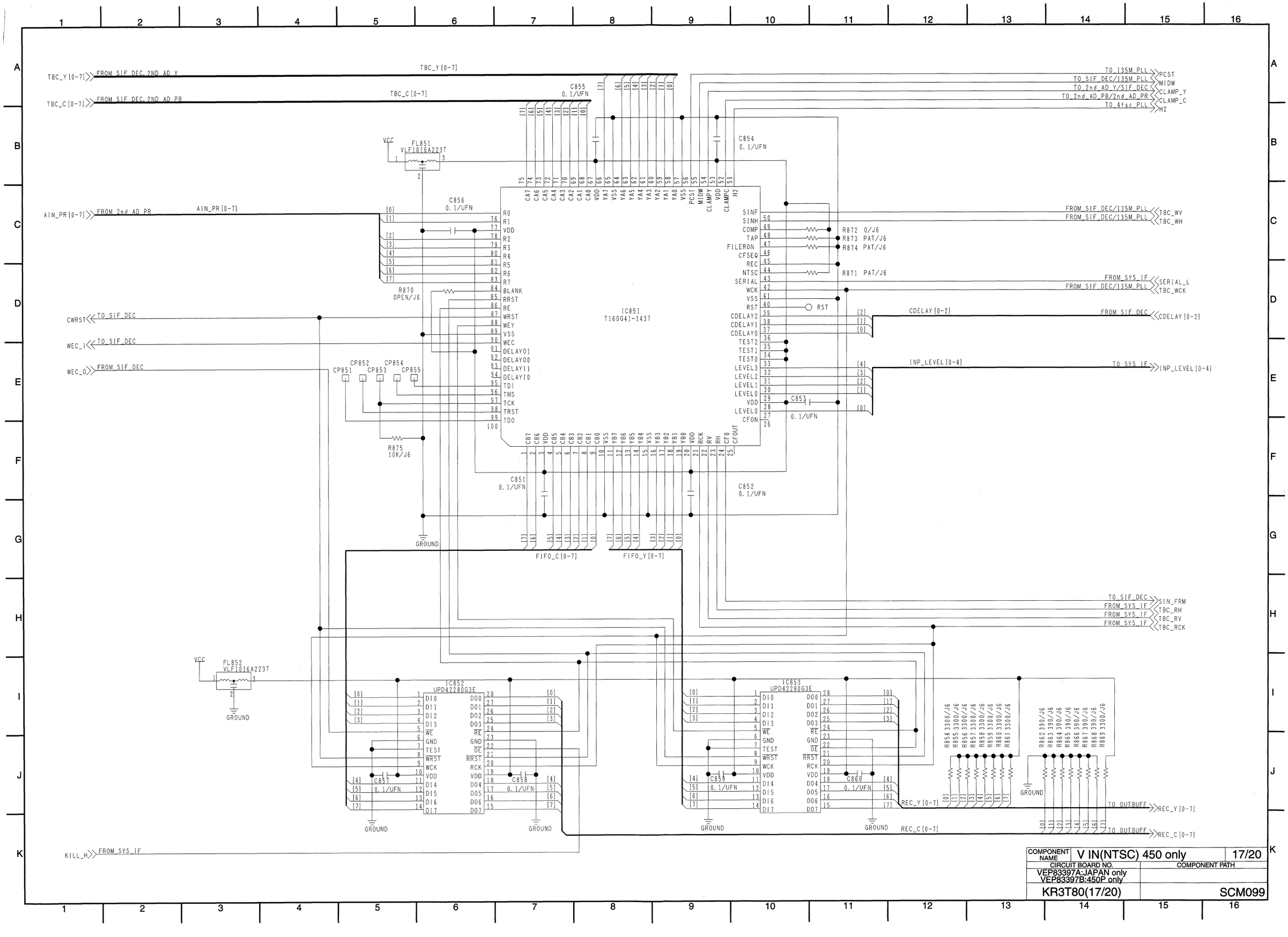
COMPONENT NAME	V IN(NTSC) 450 only
	14/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only	
KR3T80(14/20)	SCM96



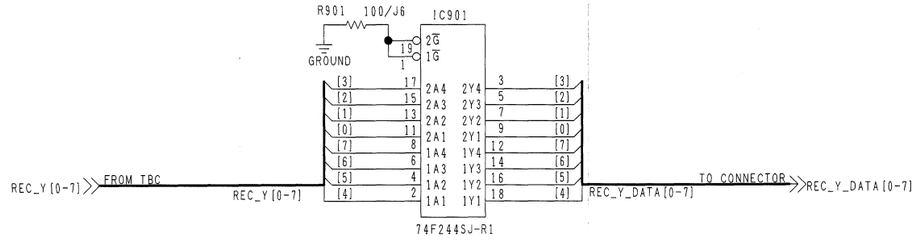
COMPONENT NAME	V IN(NTSC) 450 only
	15/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only	
KR3T80(15/20)	SCM97

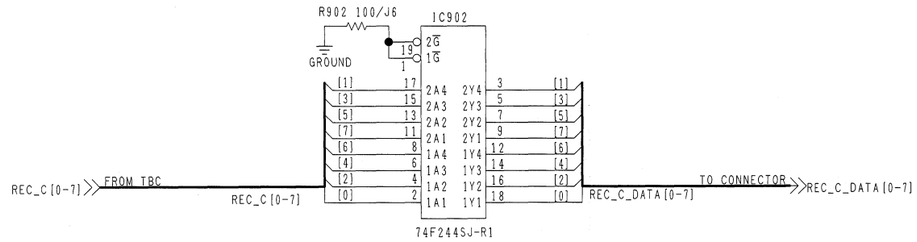


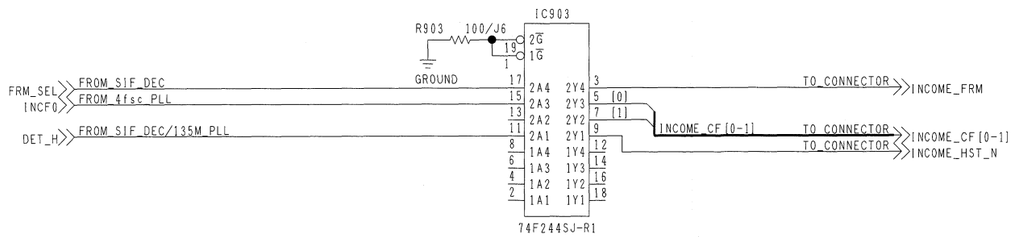
COMPONENT NAME	V IN(NTSC) 450 only	16/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(16/20)		SCM98

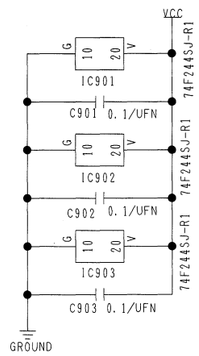


COMPONENT NAME	V IN(NTSC) 450 only 17/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only	
KR3T80(17/20)	SCM099

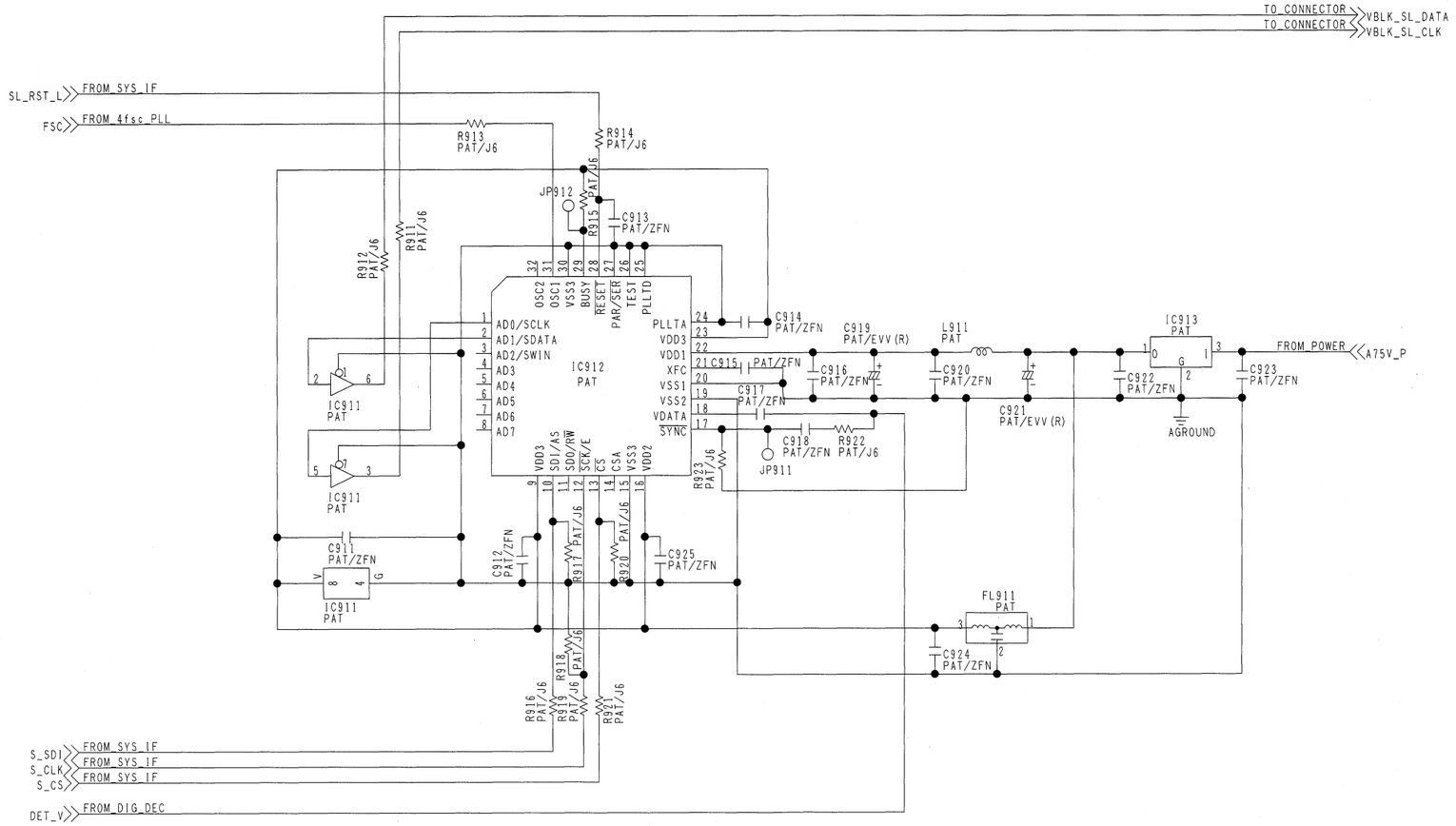




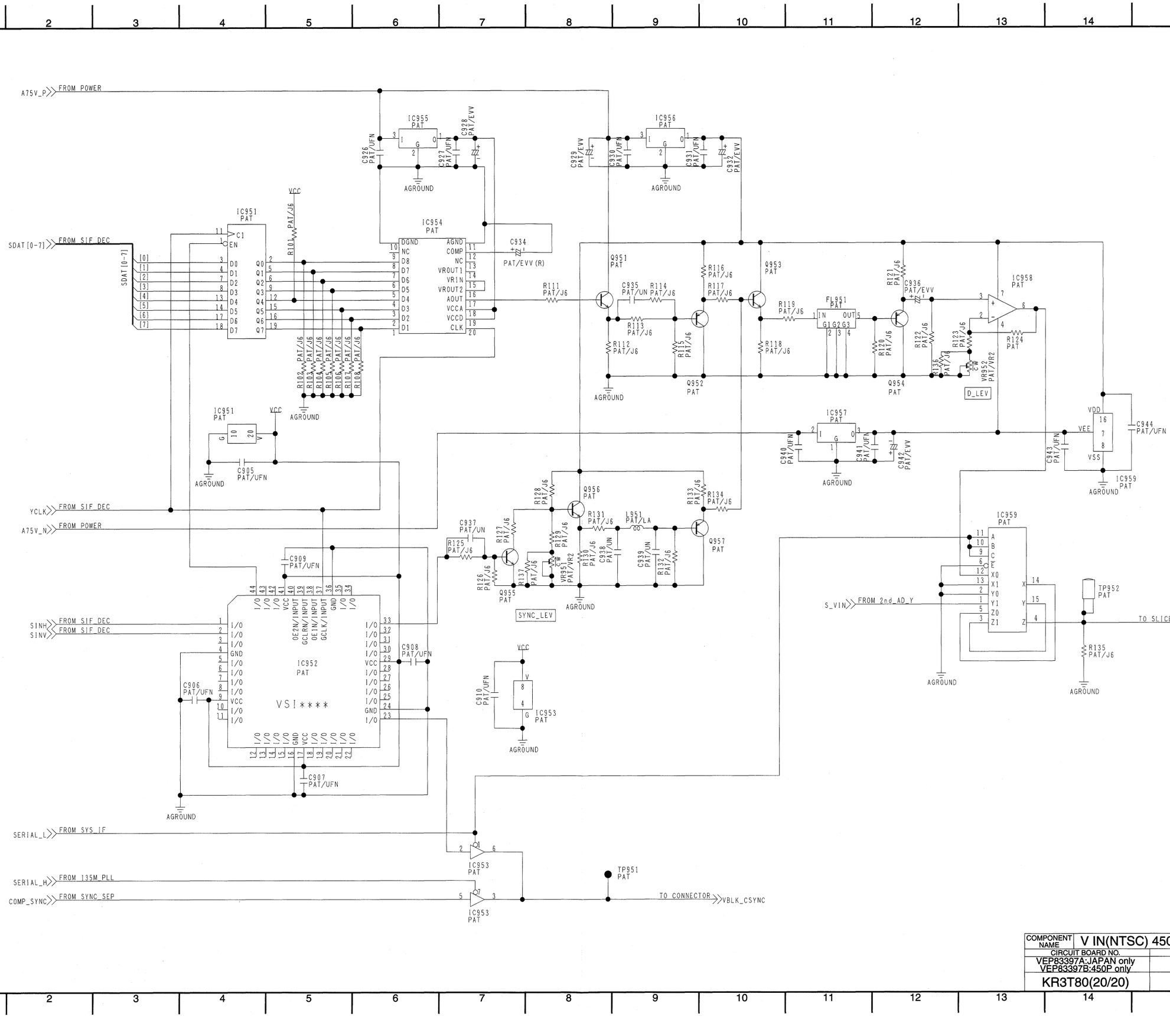




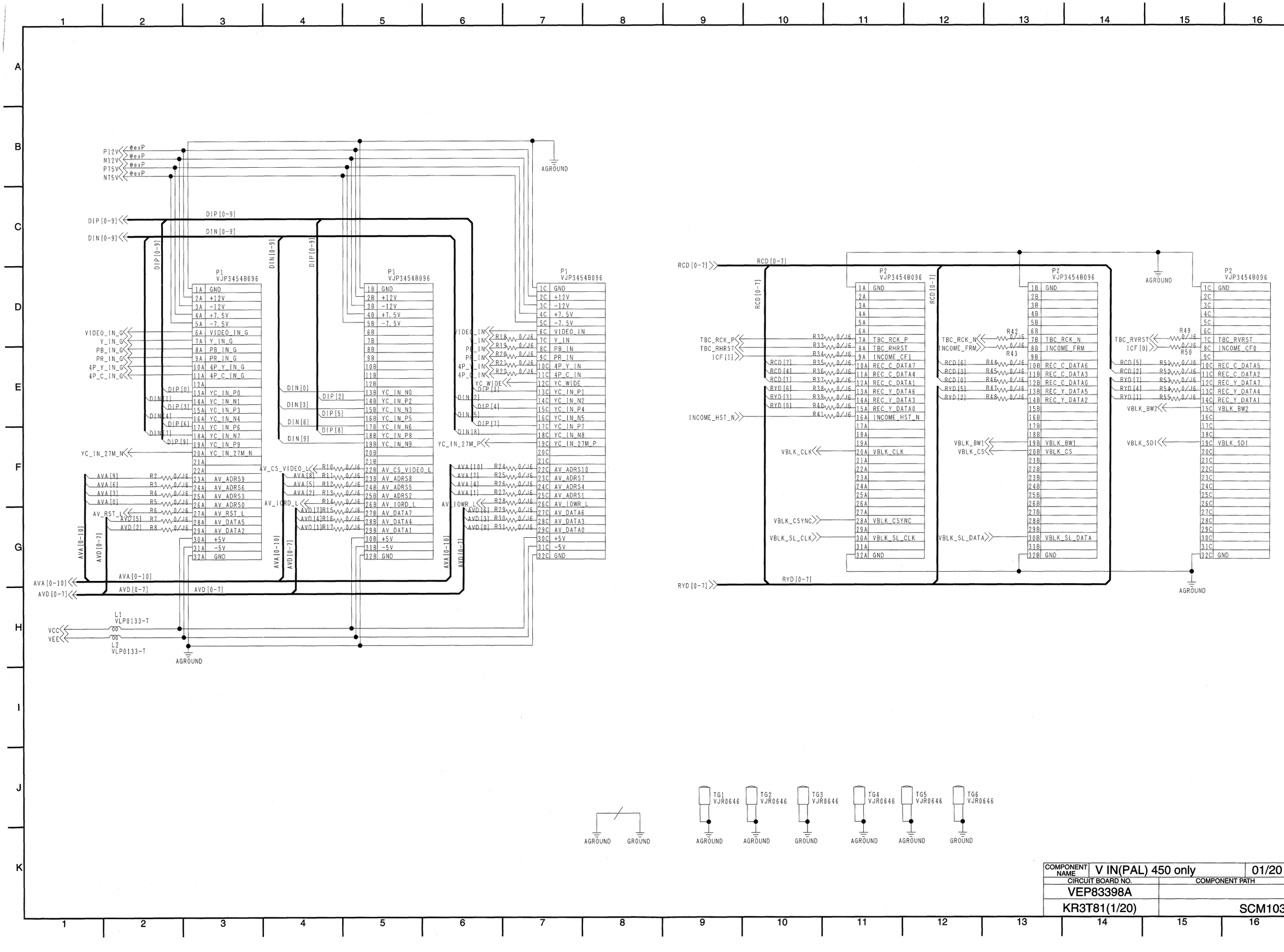
COMPONENT NAME	V IN(NTSC) 450 only	18/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(18/20)		SCM100



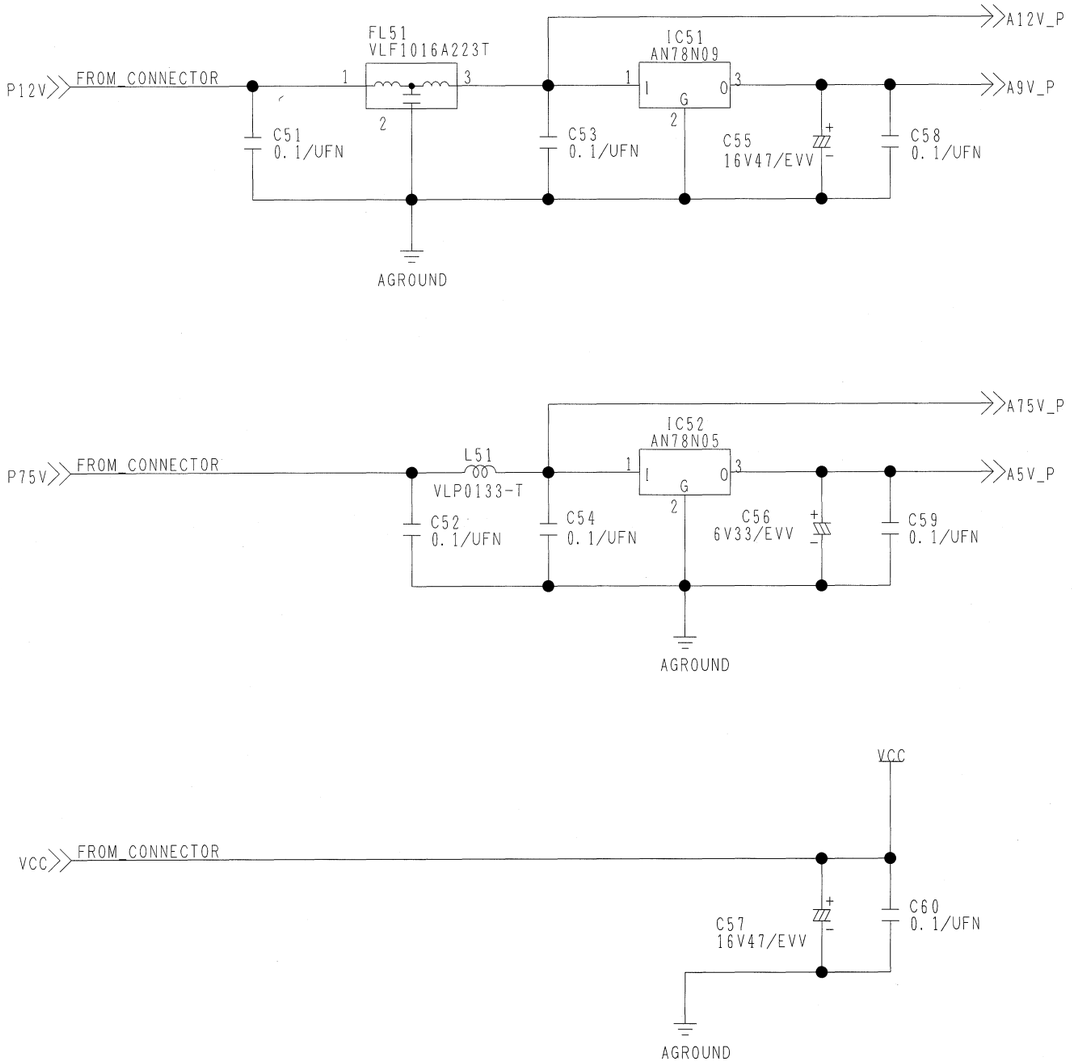
COMPONENT NAME	V IN(NTSC) 450 only	19/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(19/20)		SCM101

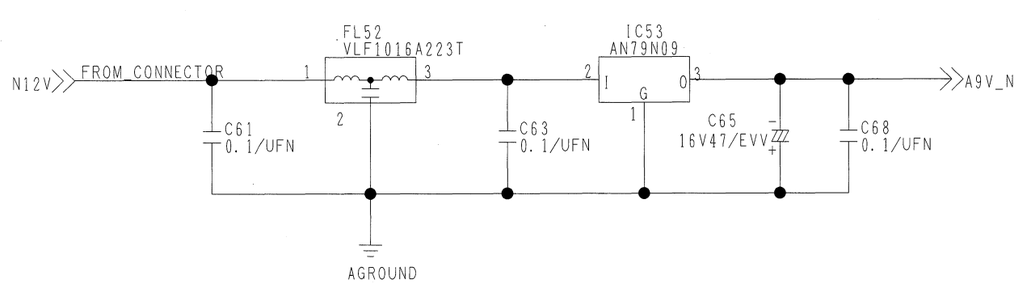


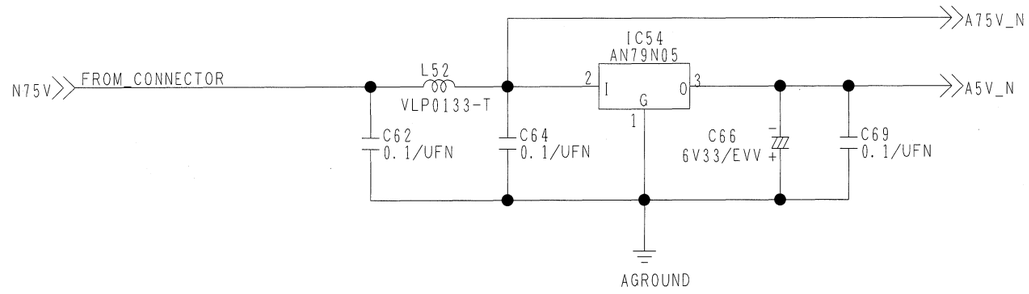
COMPONENT NAME	V IN(NTSC) 450 only
	20/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only	
KR3T80(20/20)	SCM102

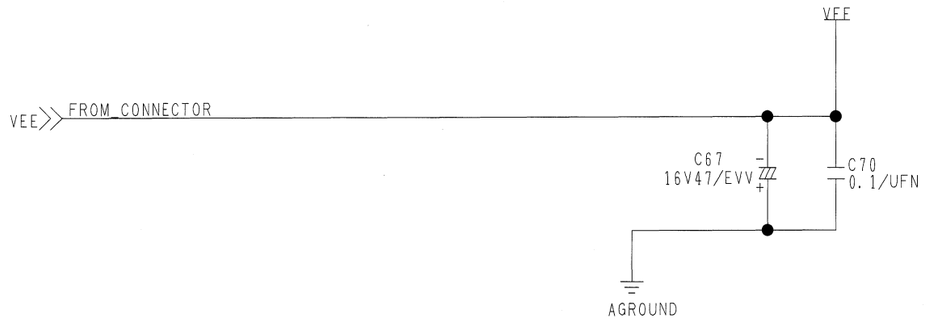


COMPONENT NAME	V IN(PAL) 450 only 01/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83398A	
KR3T81(1/20)	SCM103

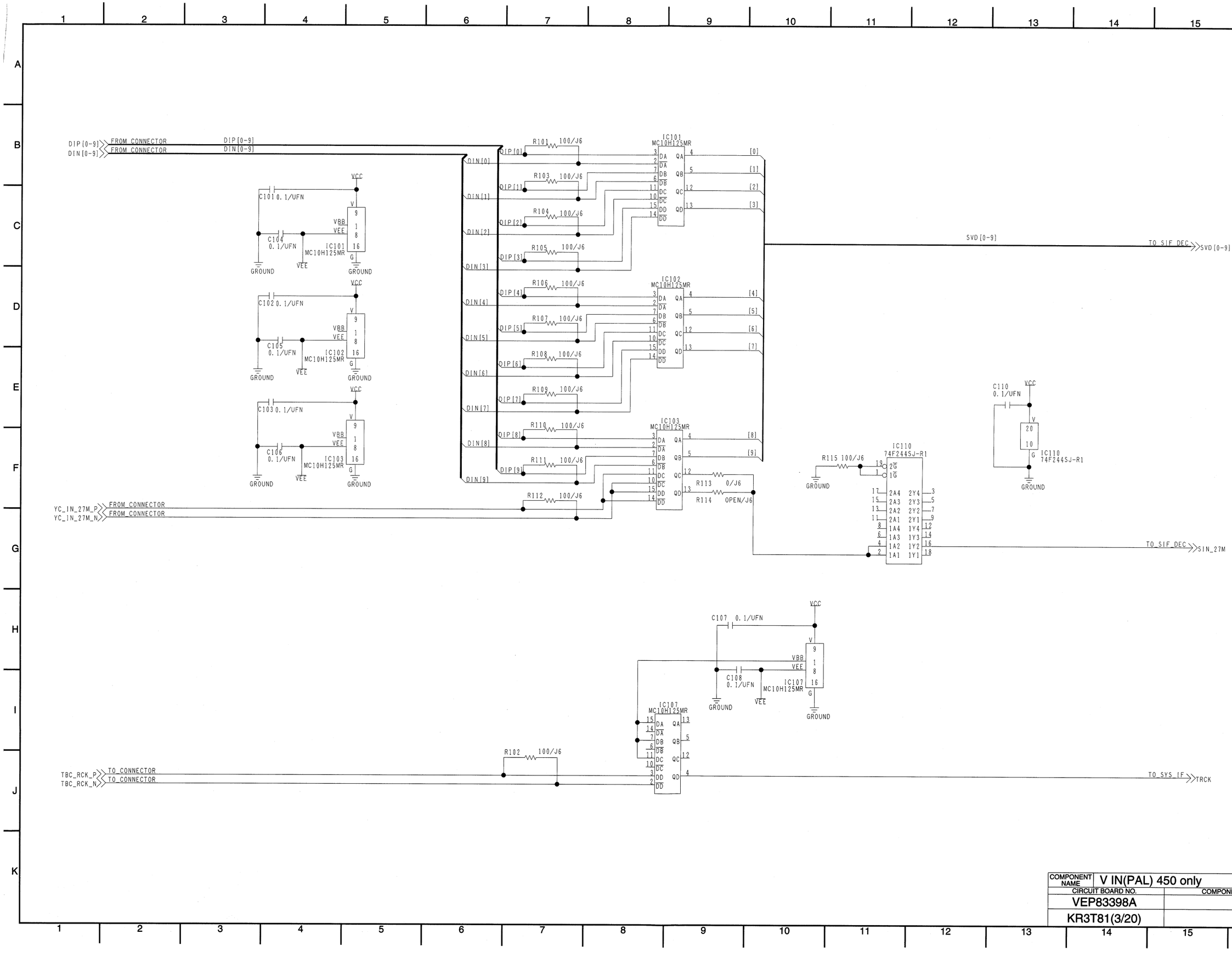






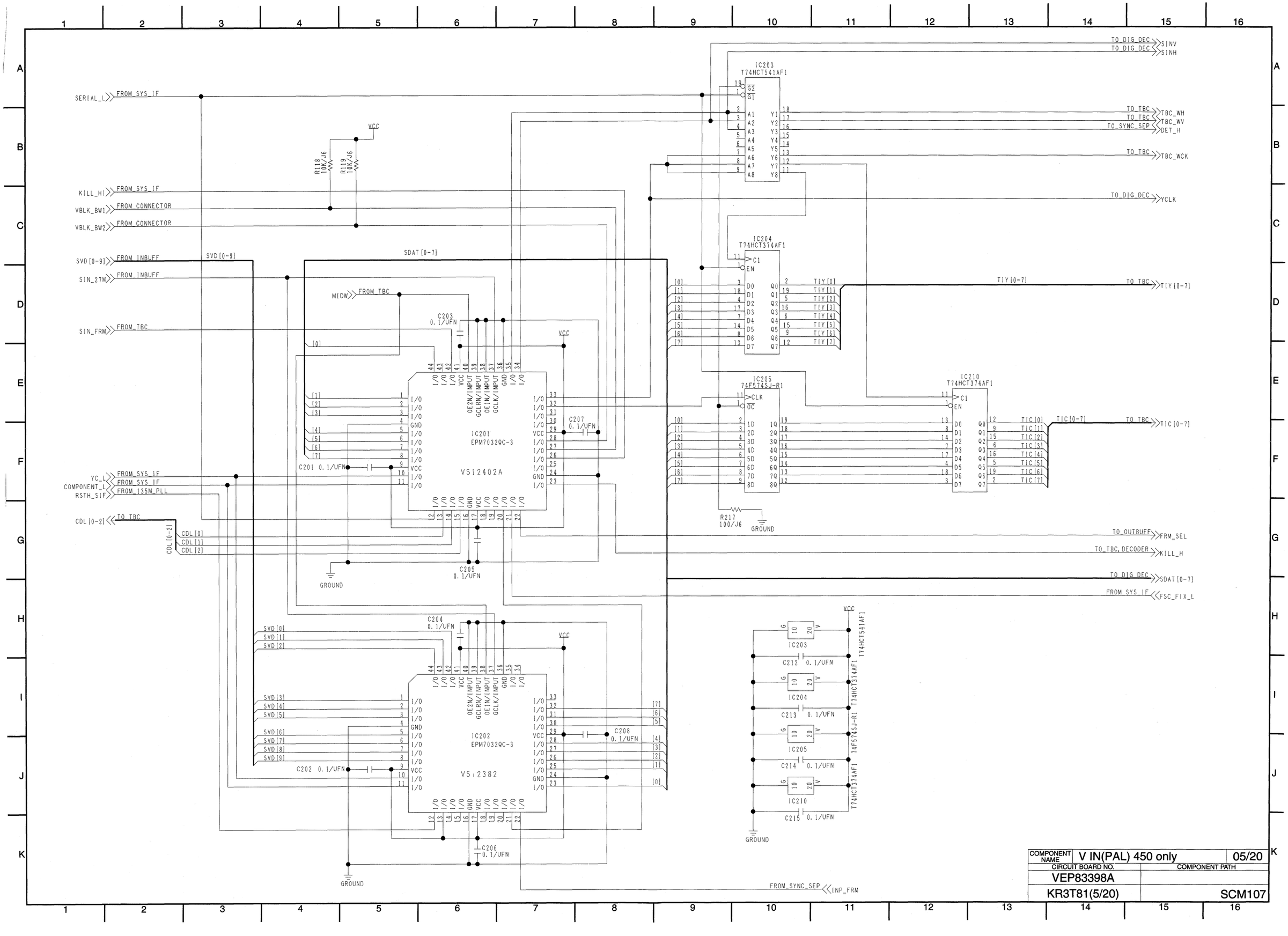


COMPONENT NAME	V IN(PAL) 450 only	02/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(2/20)		SCM104

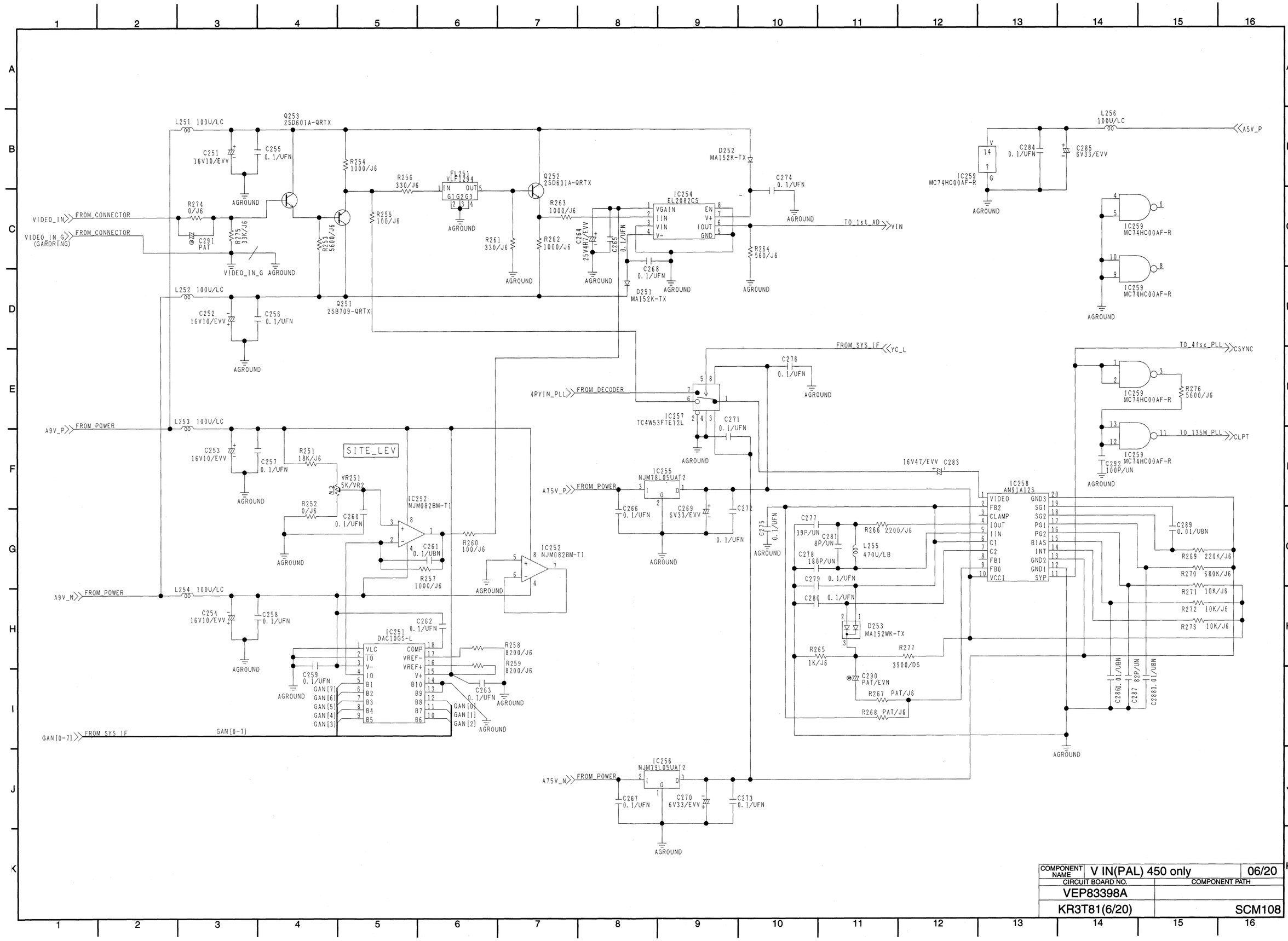


COMPONENT NAME	V IN(PAL) 450 only	03/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(3/20)		SCM105

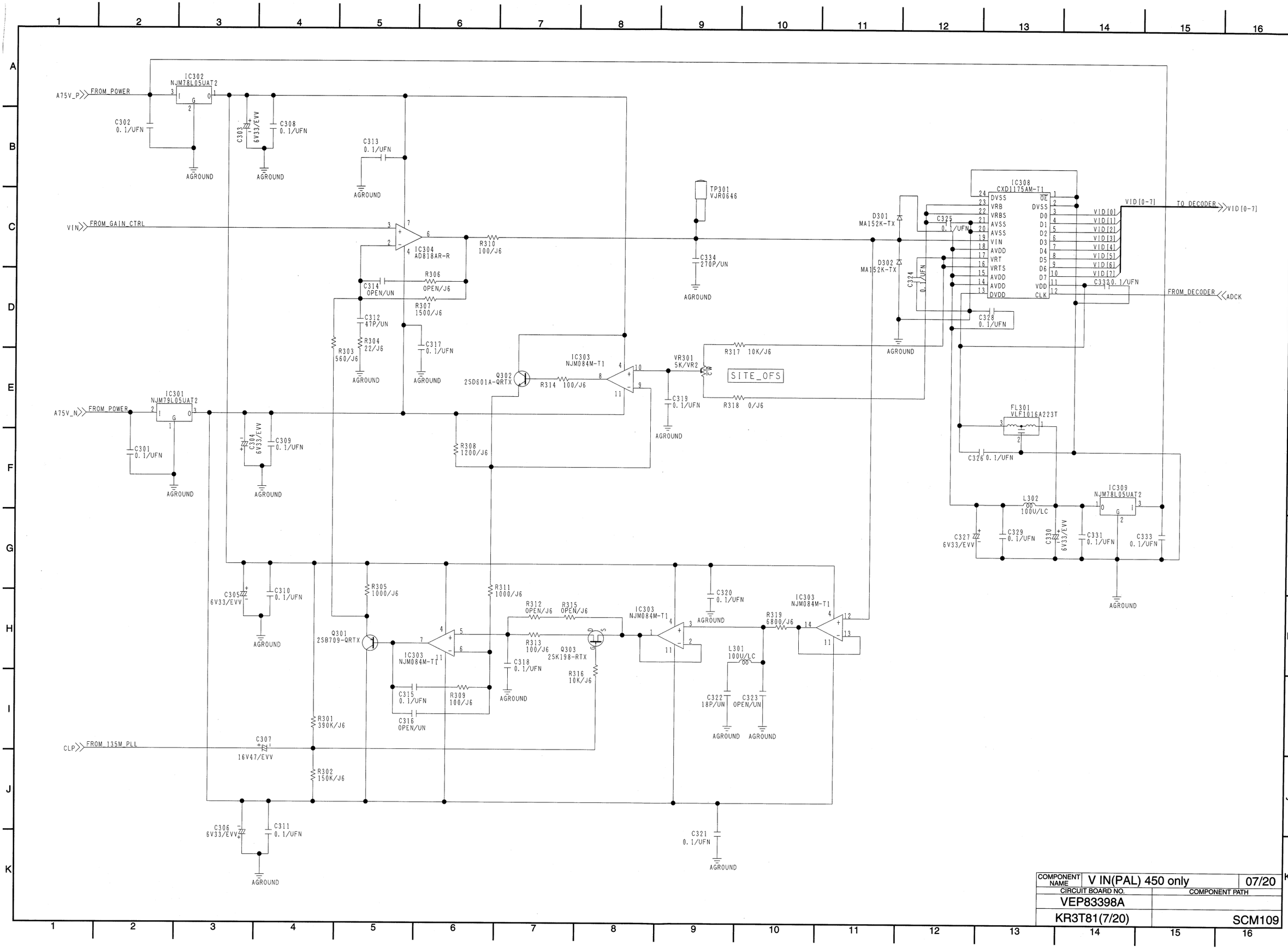
COMPONENT NAME	V IN(PAL) 450 only	04/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(4/20)		SCM106



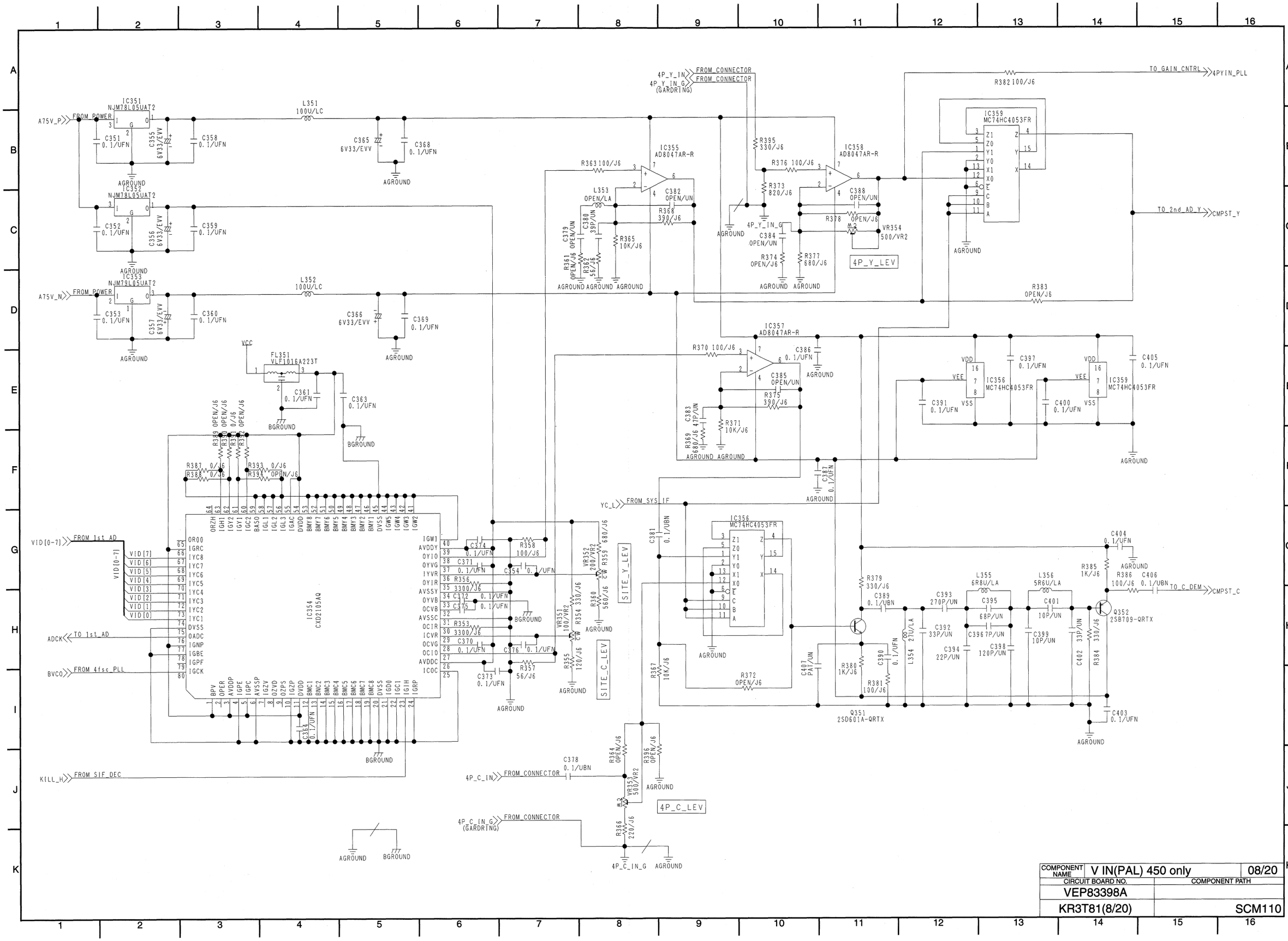
COMPONENT NAME	V IN(PAL) 450 only 05/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83398A	
KR3T81(5/20)	SCM107



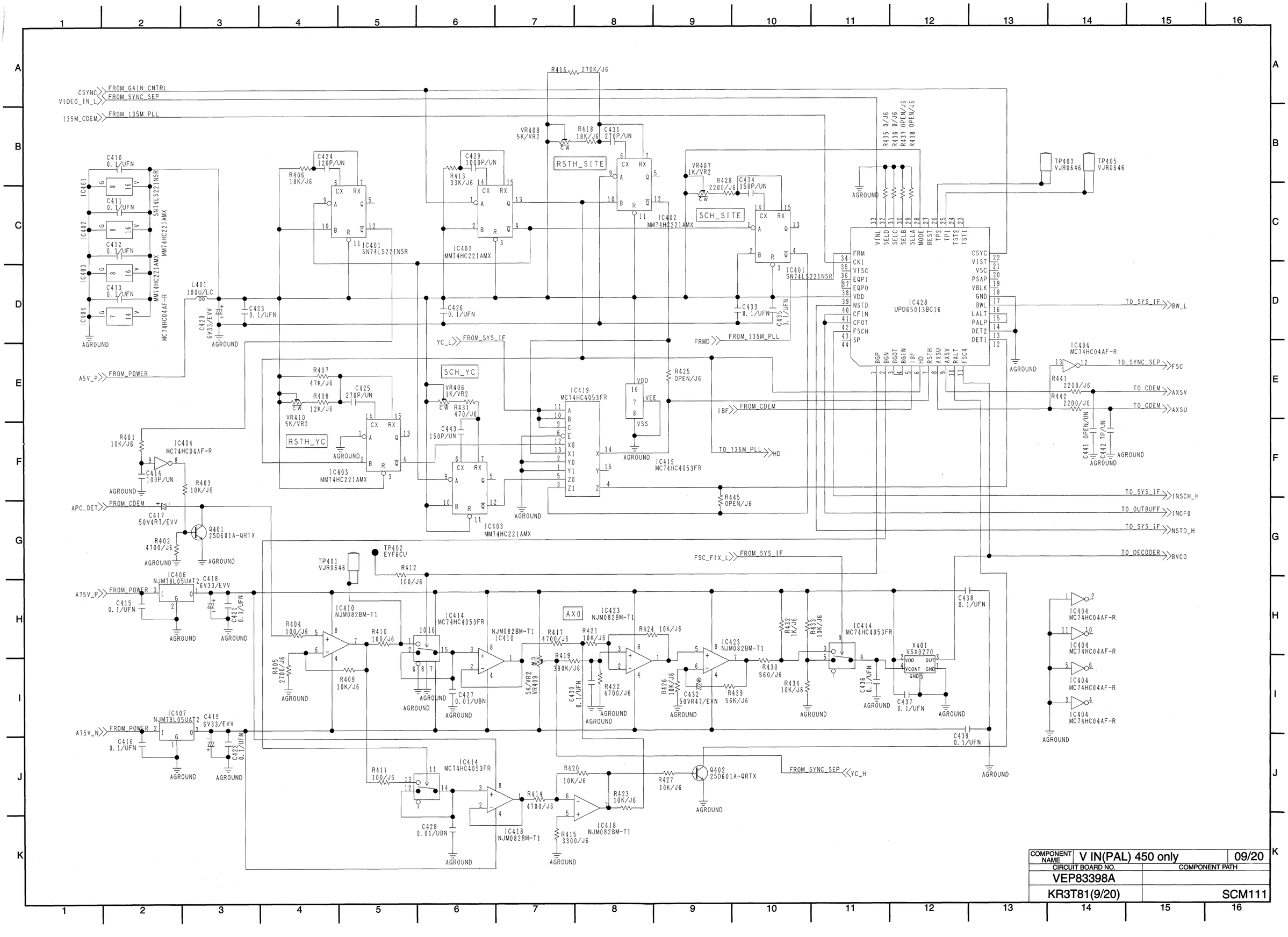
COMPONENT NAME	V IN(PAL) 450 only	06/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(6/20)		SCM108



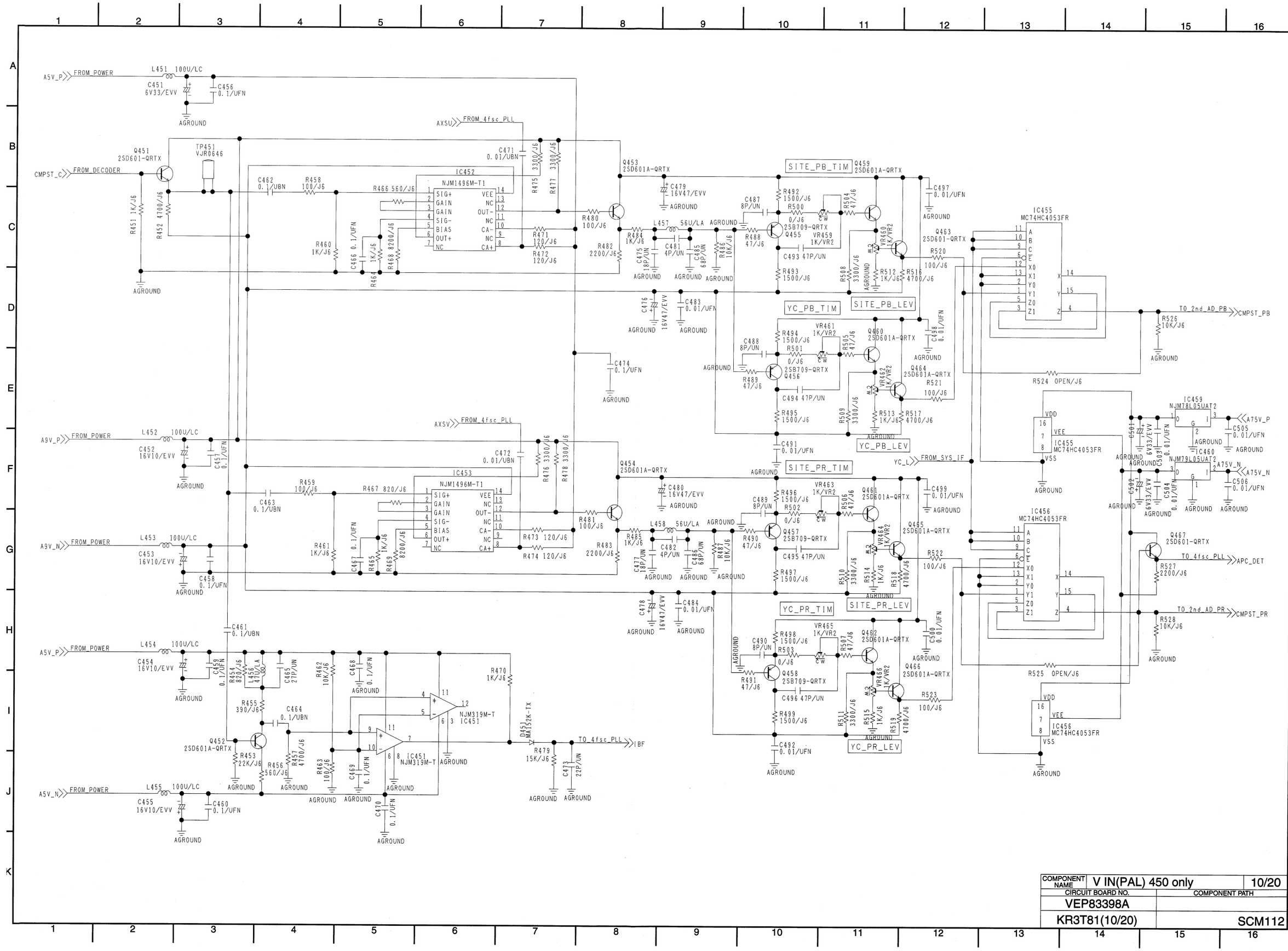
COMPONENT NAME	V IN(PAL) 450 only	07/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(7/20)		SCM109



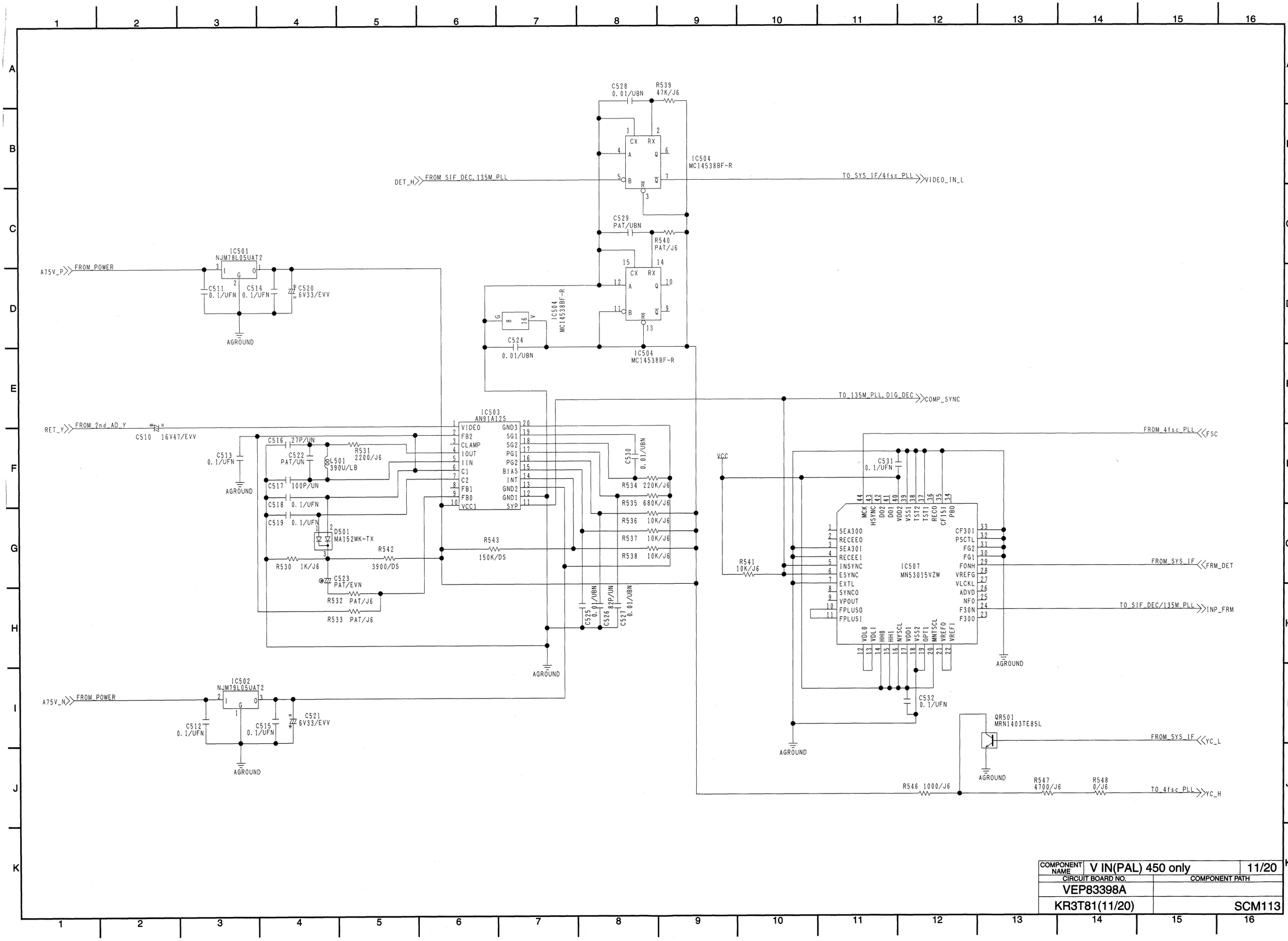
COMPONENT NAME	V IN(PAL) 450 only	08/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(8/20)		SCM110



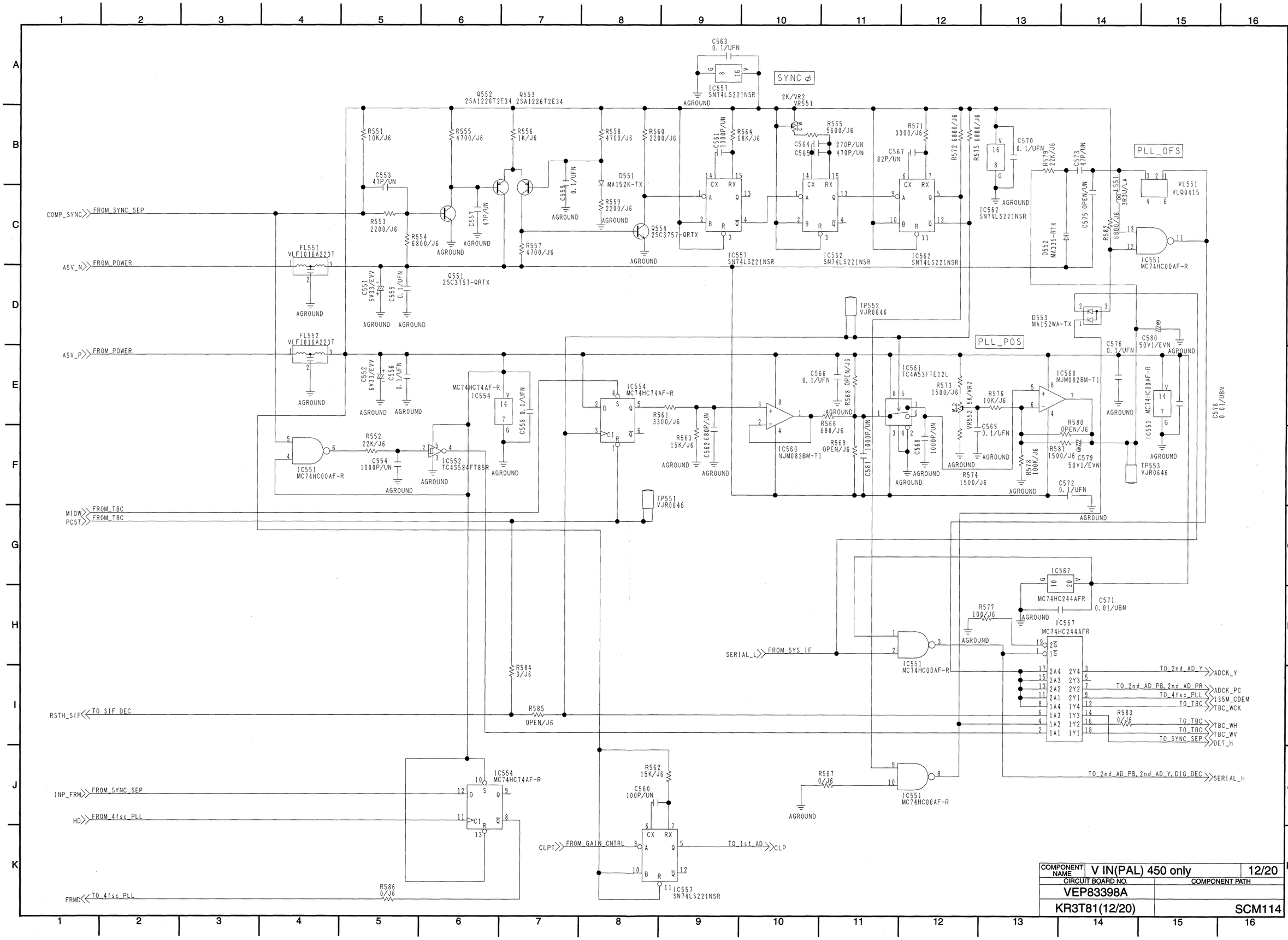
COMPONENT NAME	V IN(PAL) 450 only	09/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(9/20)		SCM111



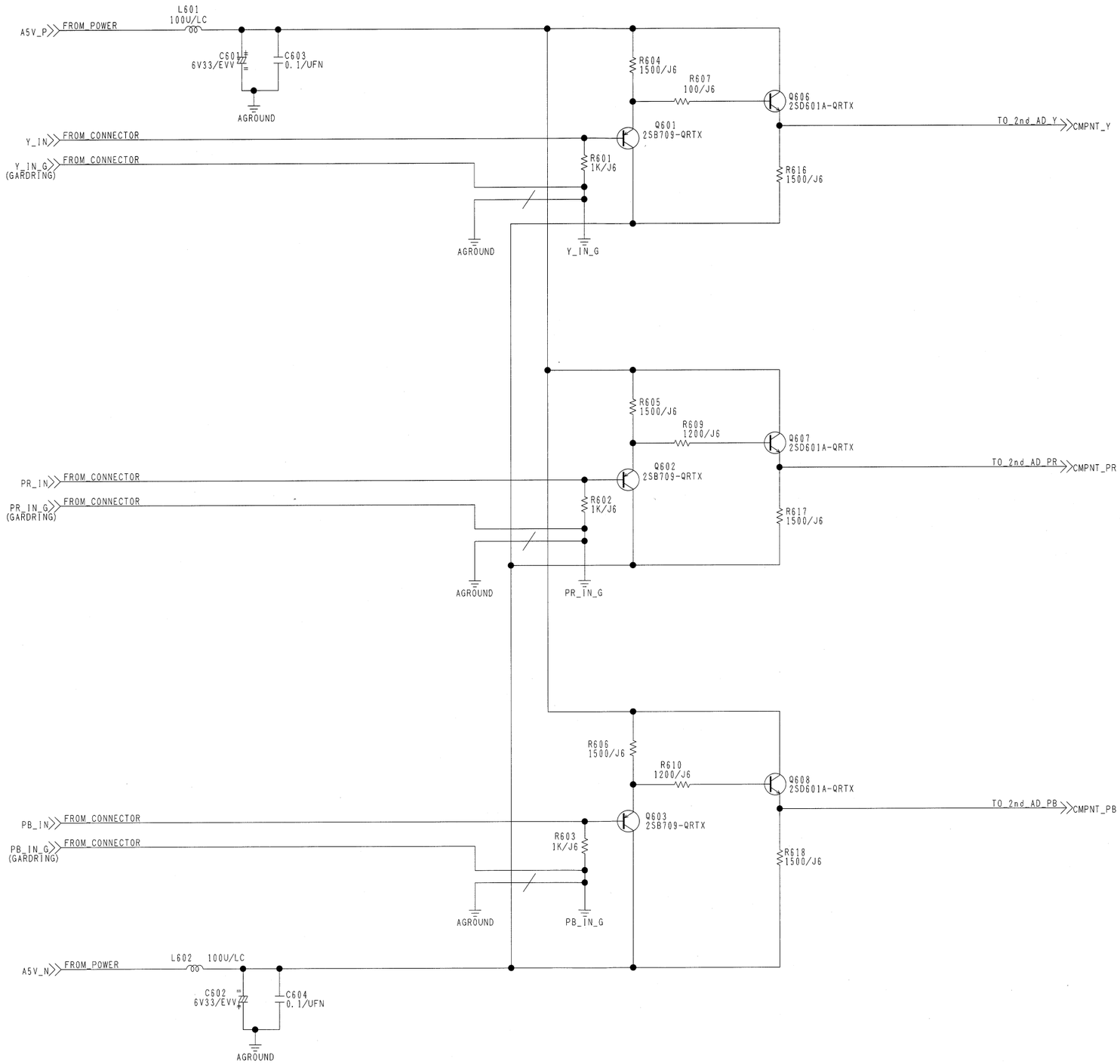
COMPONENT NAME	V IN(PAL) 450 only	10/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(10/20)		SCM112



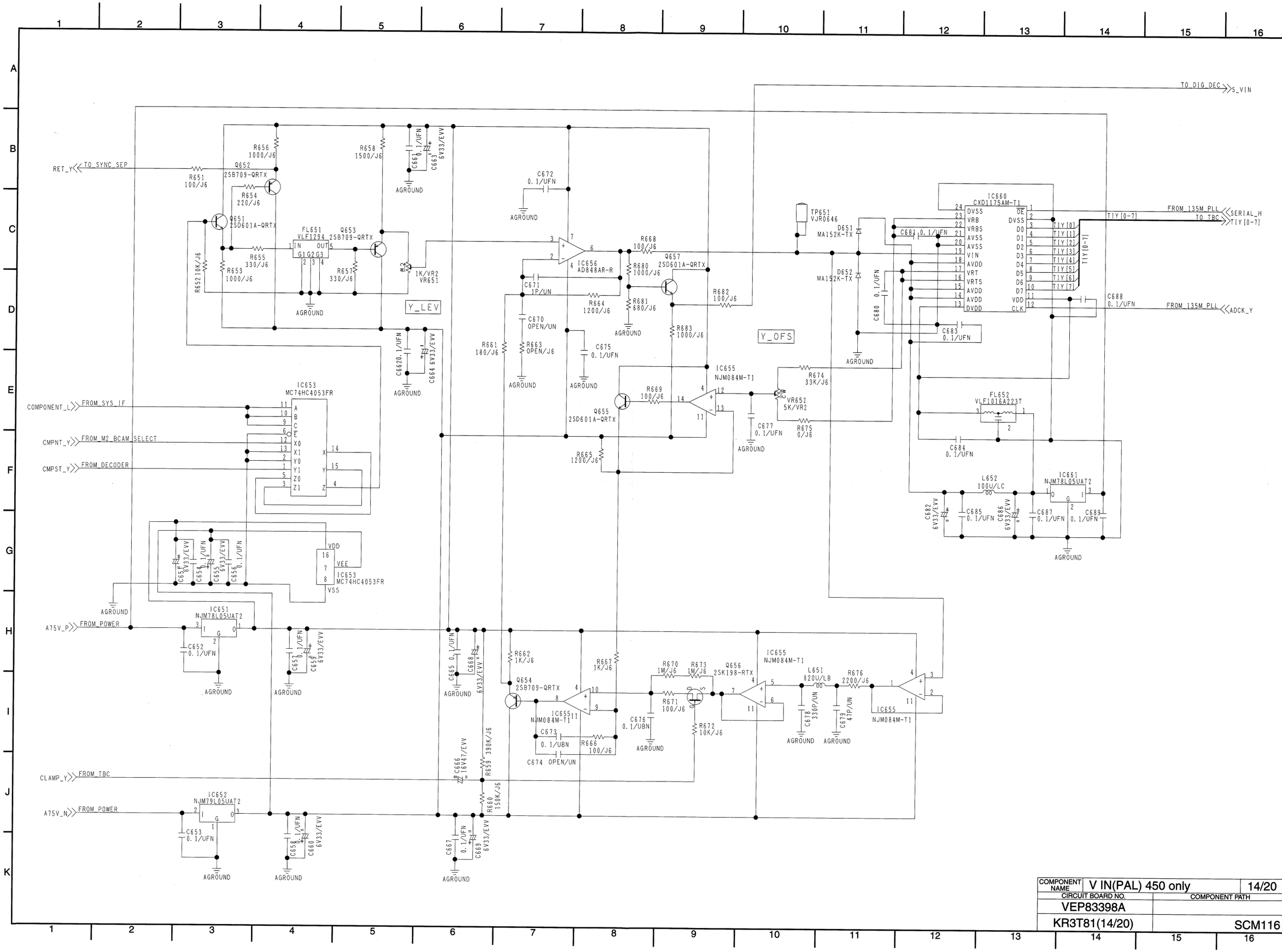
COMPONENT NAME	V IN(PAL) 450 only	11/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(11/20)		SCM113



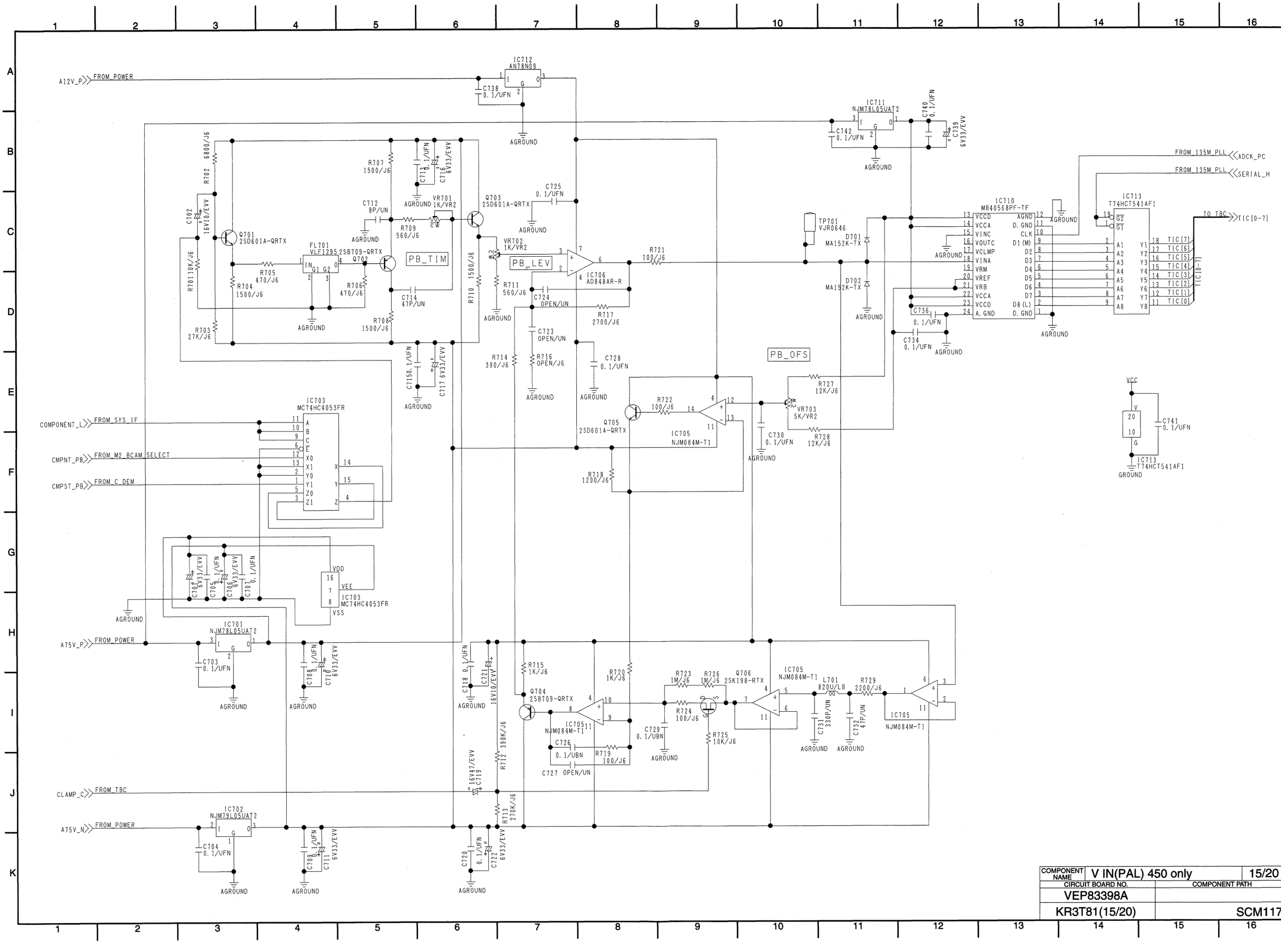
COMPONENT NAME	V IN(PAL) 450 only	12/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(12/20)		SCM114



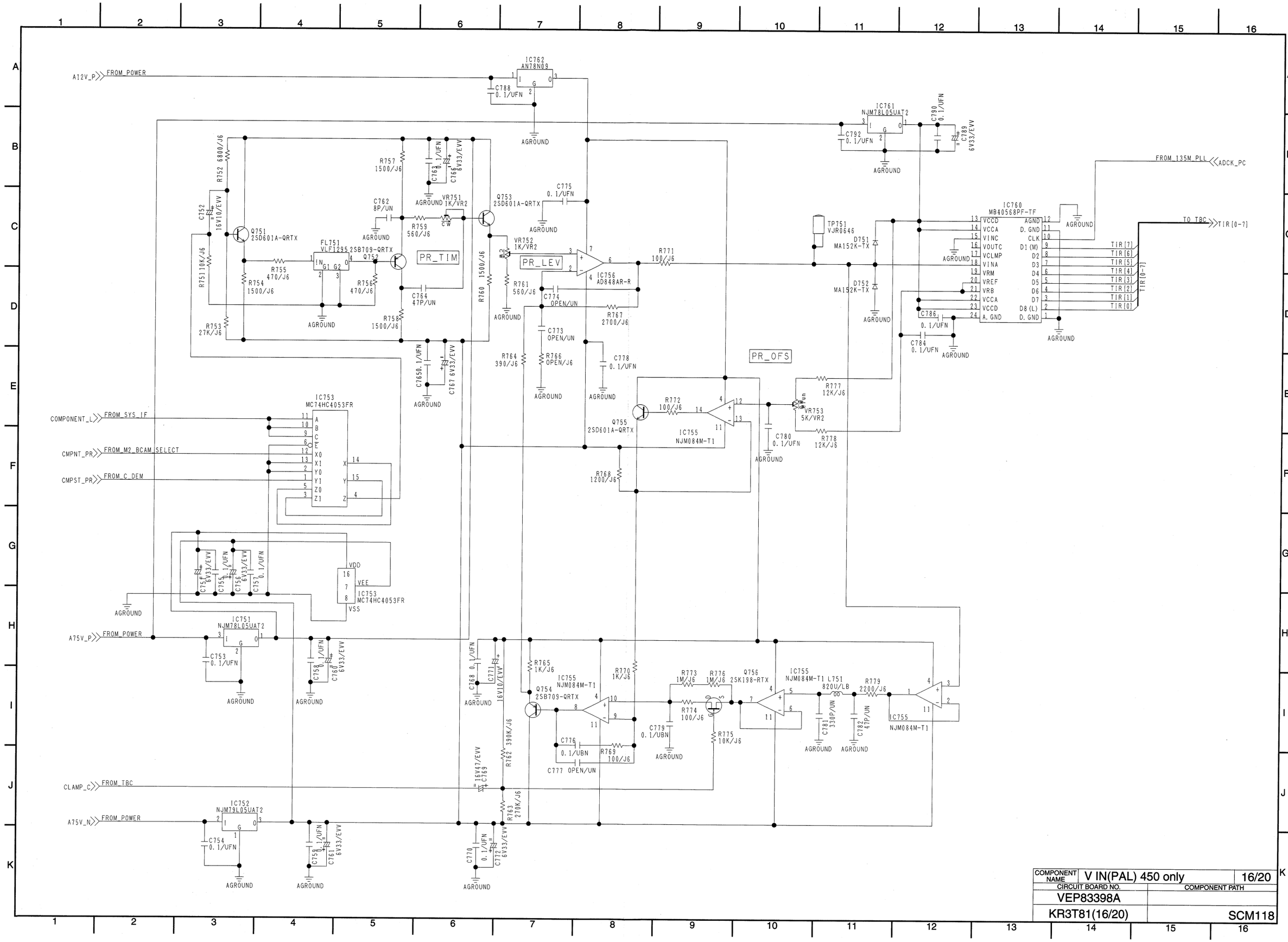
COMPONENT NAME	V IN(PAL) 450 only
CIRCUIT BOARD NO.	VEP83398A
	KR3T81(13/20)
COMPONENT PATH	SCM115



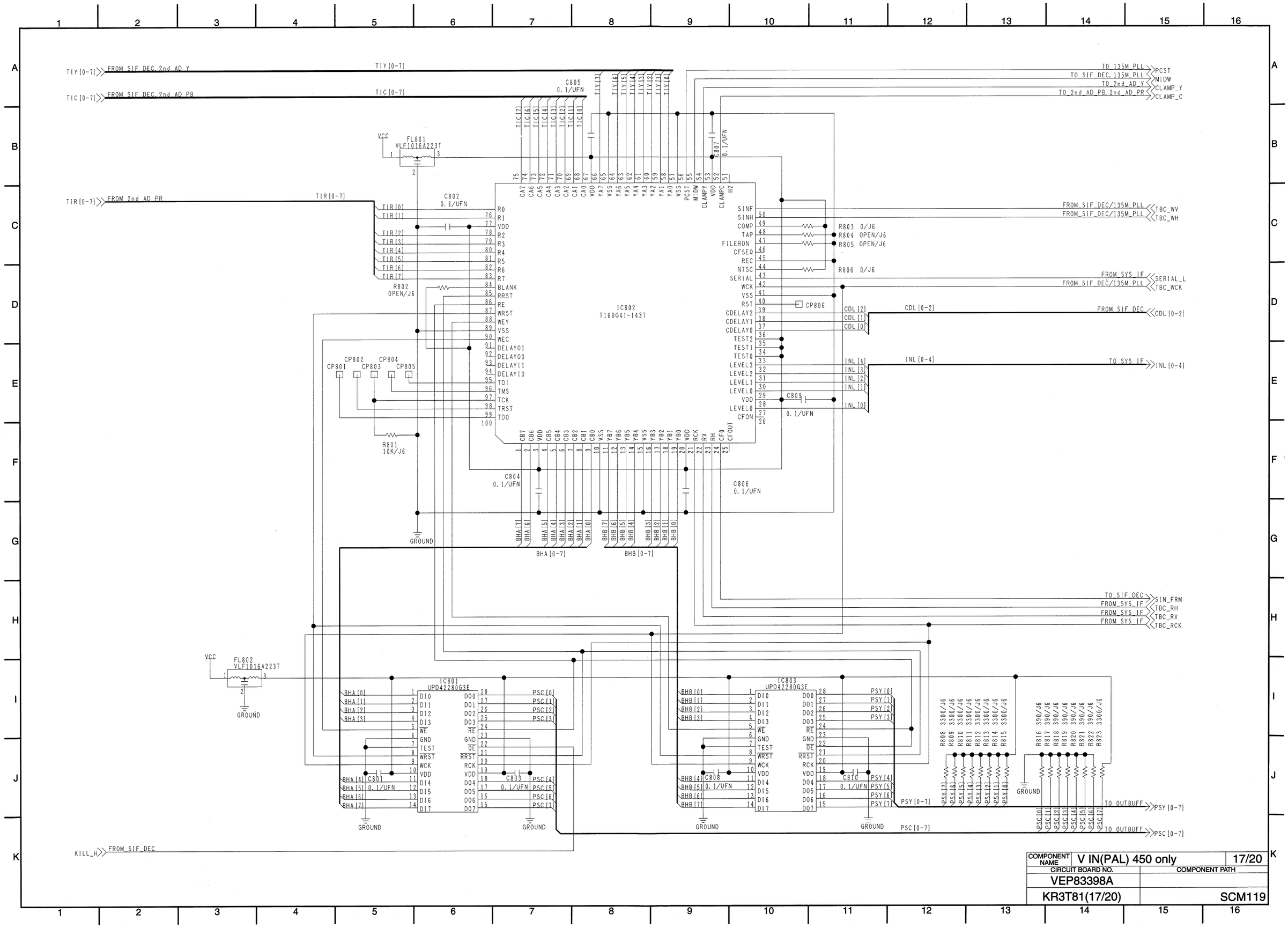
COMPONENT NAME	V IN(PAL) 450 only	14/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(14/20)		SCM116



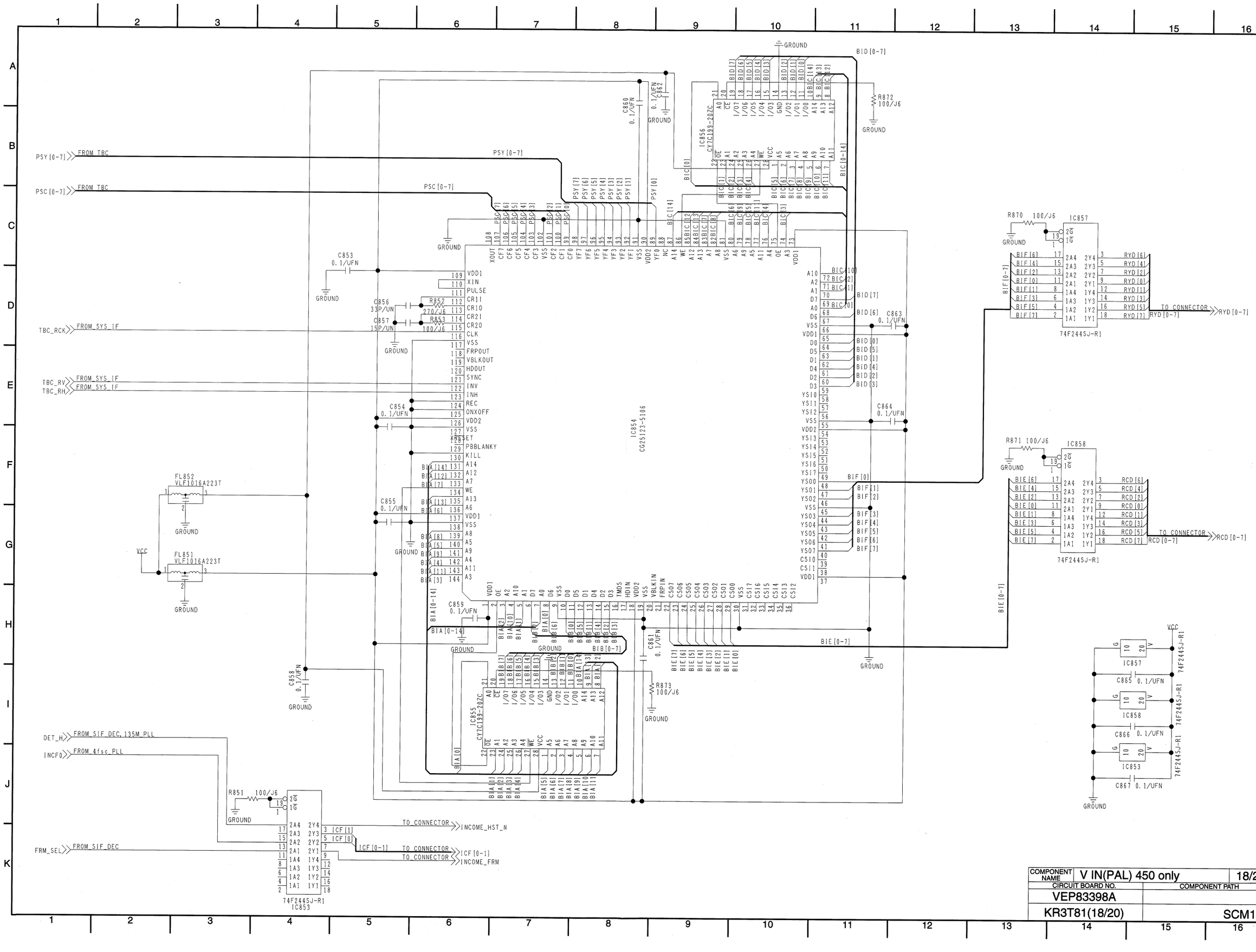
COMPONENT NAME	V IN(PAL) 450 only 15/20
CIRCUIT BOARD NO.	COMPONENT PATH
VEP83398A	
KR3T81(15/20)	SCM117



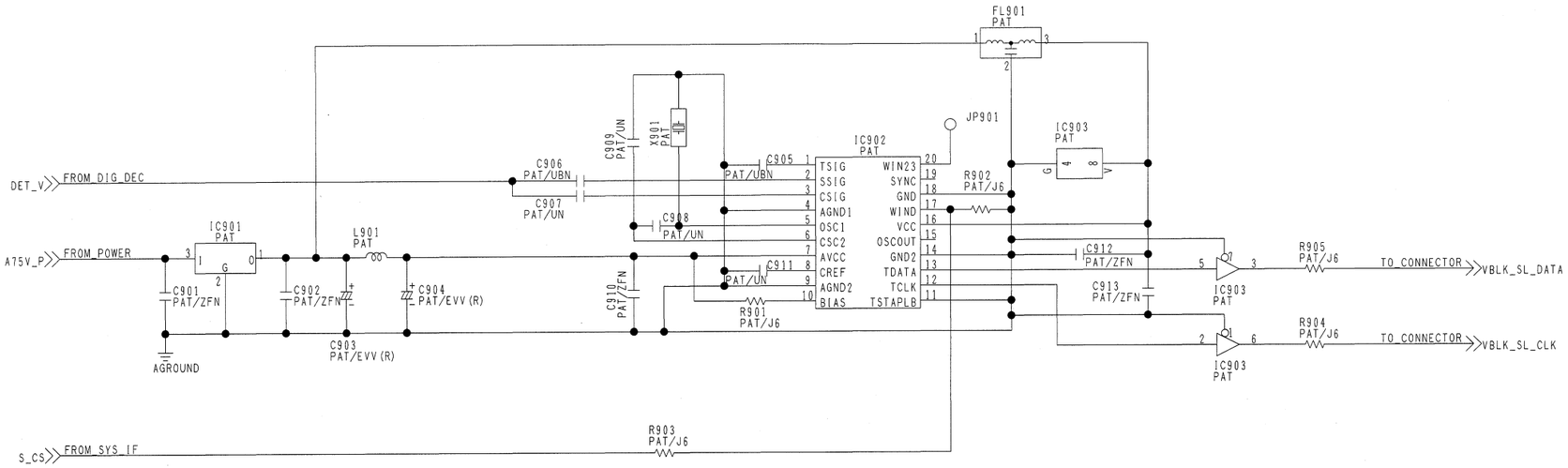
COMPONENT NAME	V IN(PAL) 450 only	16/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(16/20)		SCM118



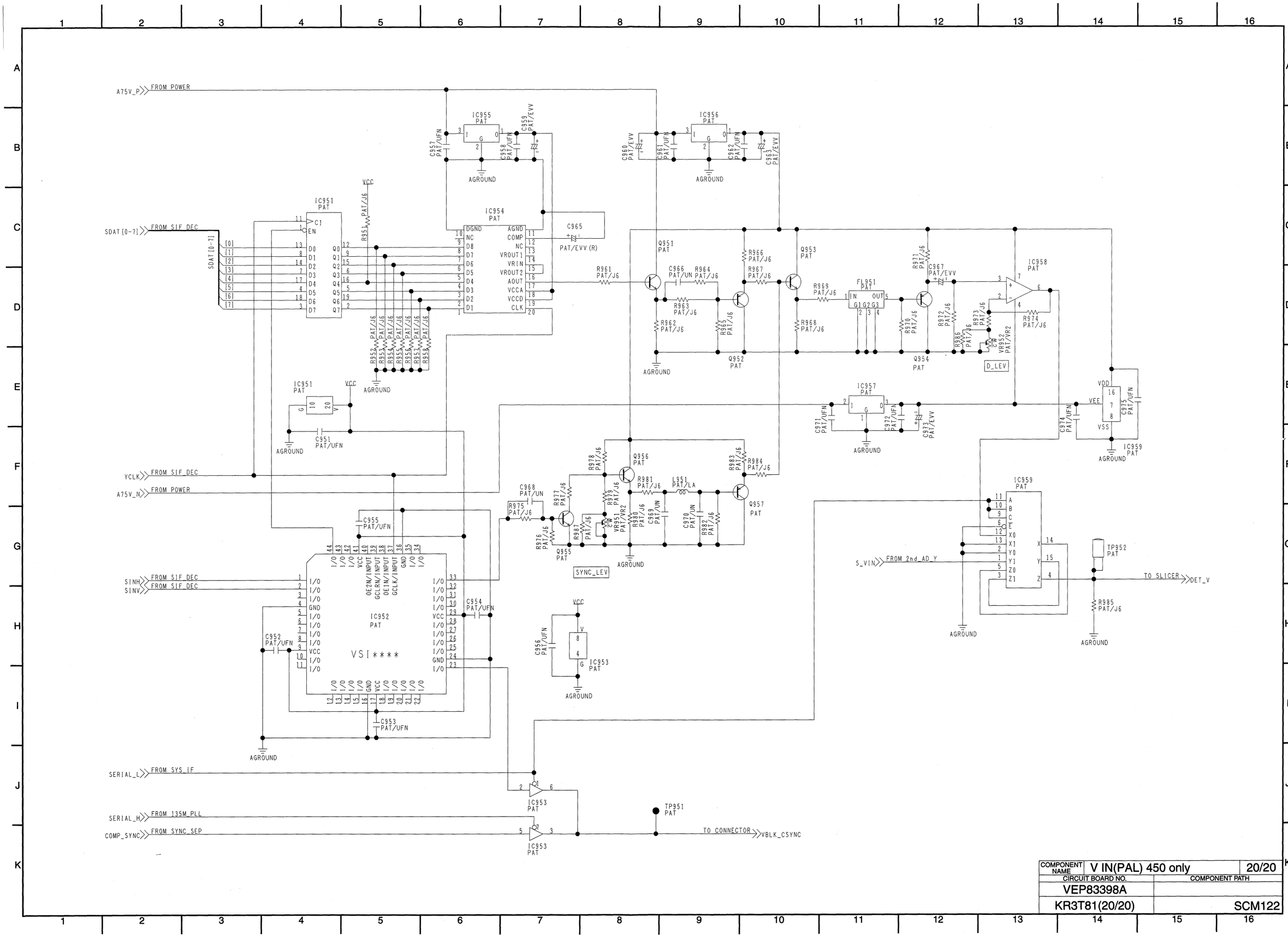
COMPONENT NAME	V IN(PAL) 450 only	17/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(17/20)		SCM119



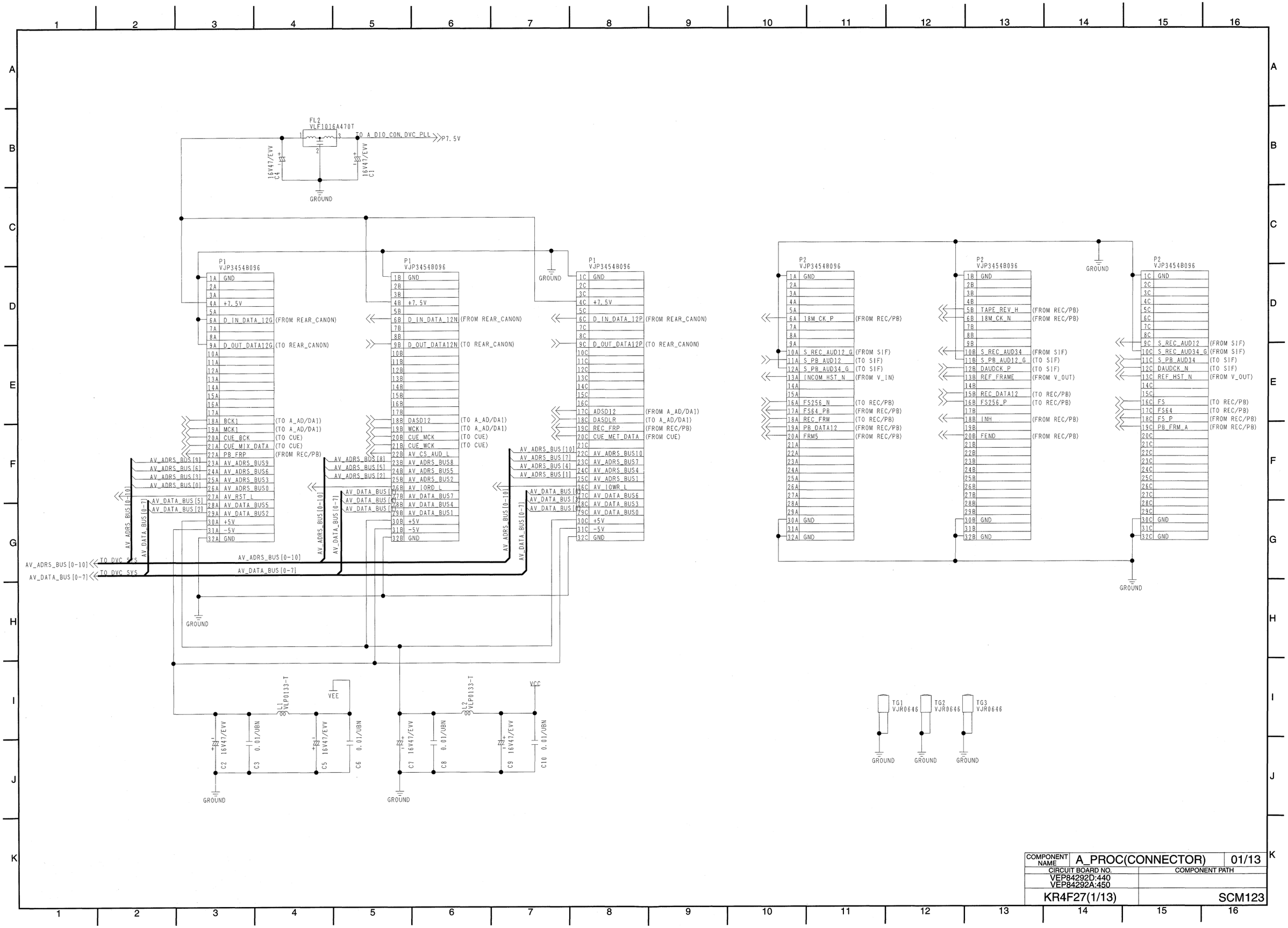
COMPONENT NAME	V IN(PAL) 450 only	18/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(18/20)		SCM120



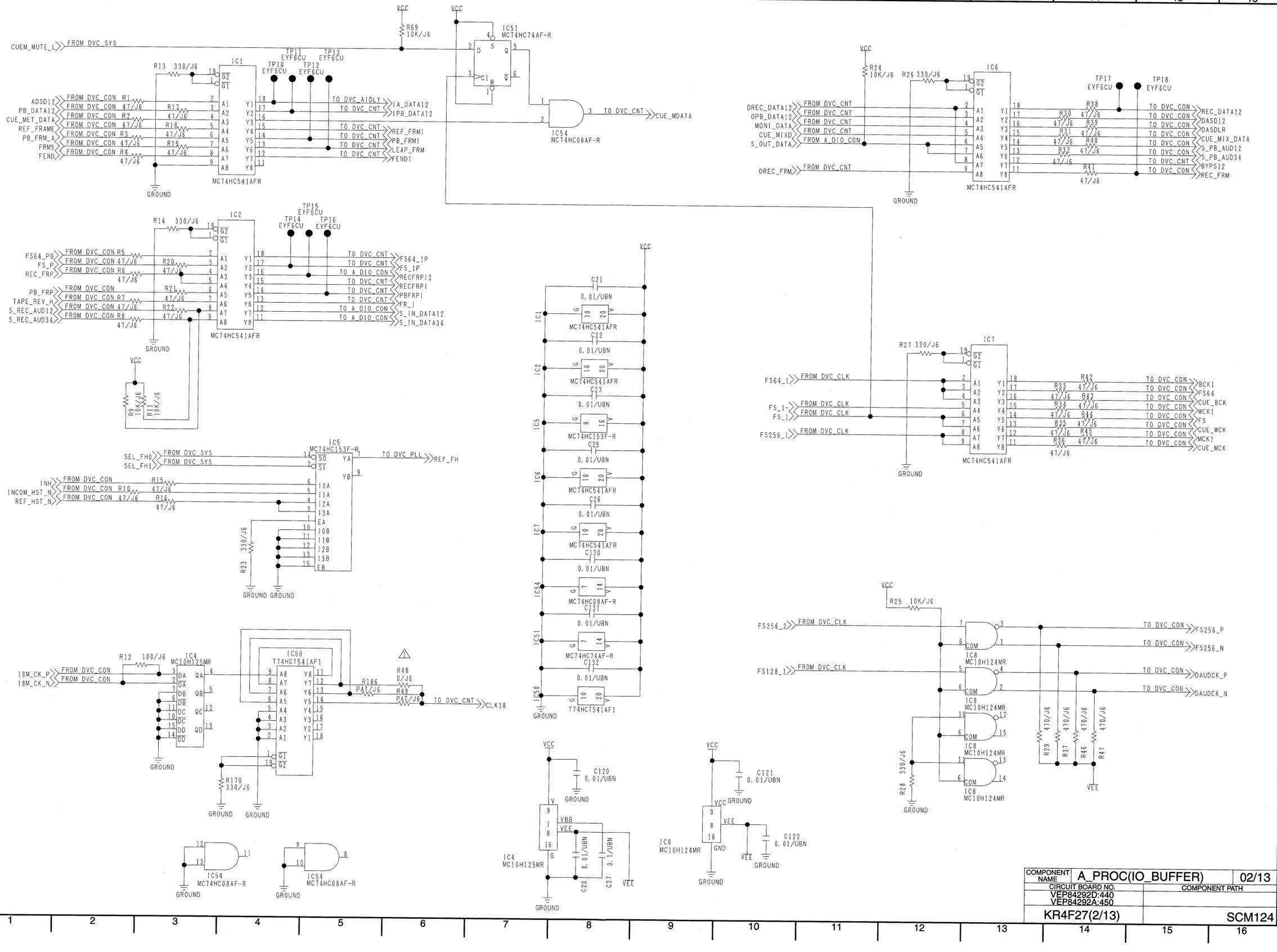
COMPONENT NAME	V IN(PAL) 450 only	19/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(19/20)	SCM121	



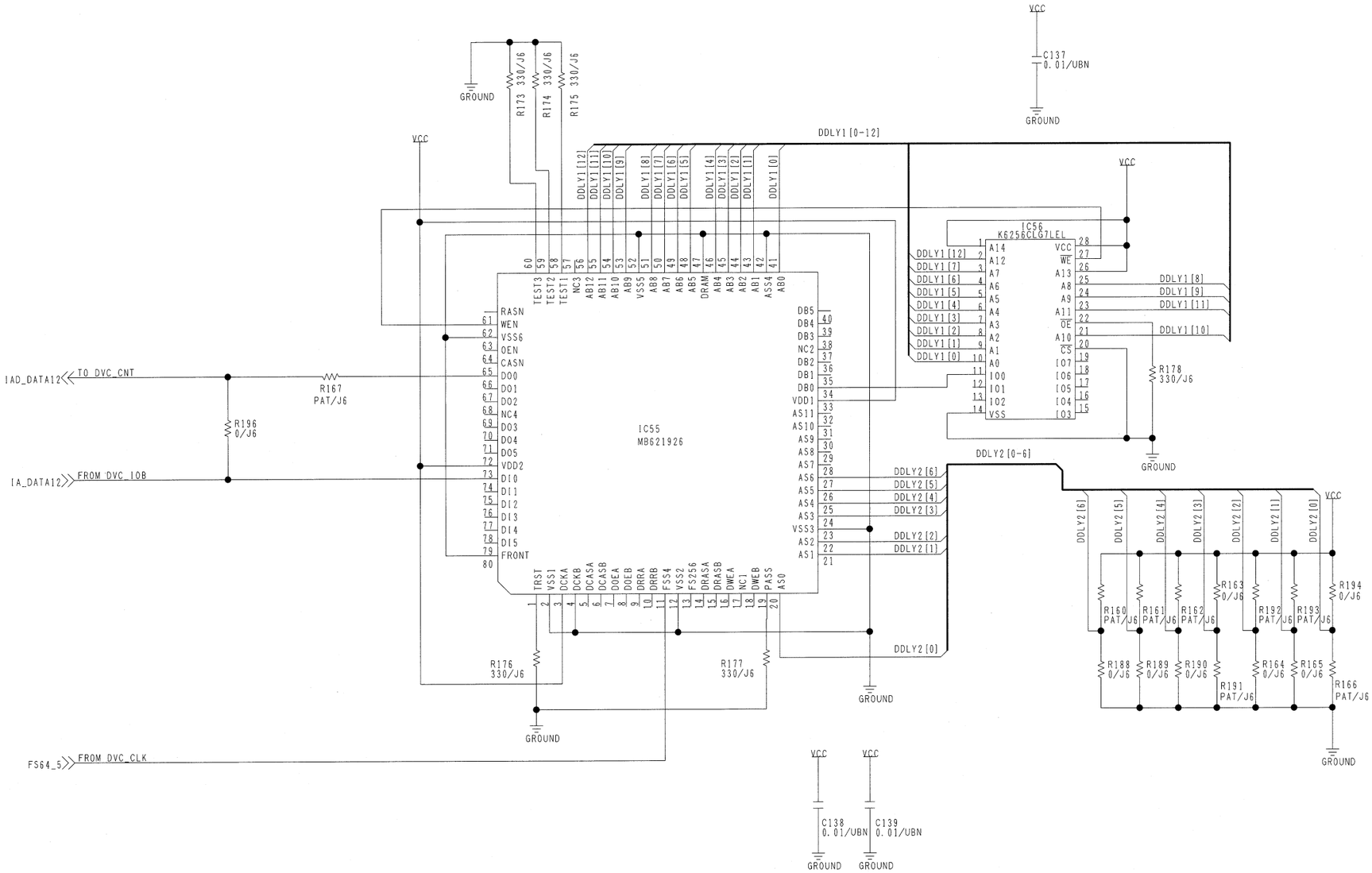
COMPONENT NAME	V IN(PAL) 450 only	20/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(20/20)		SCM122



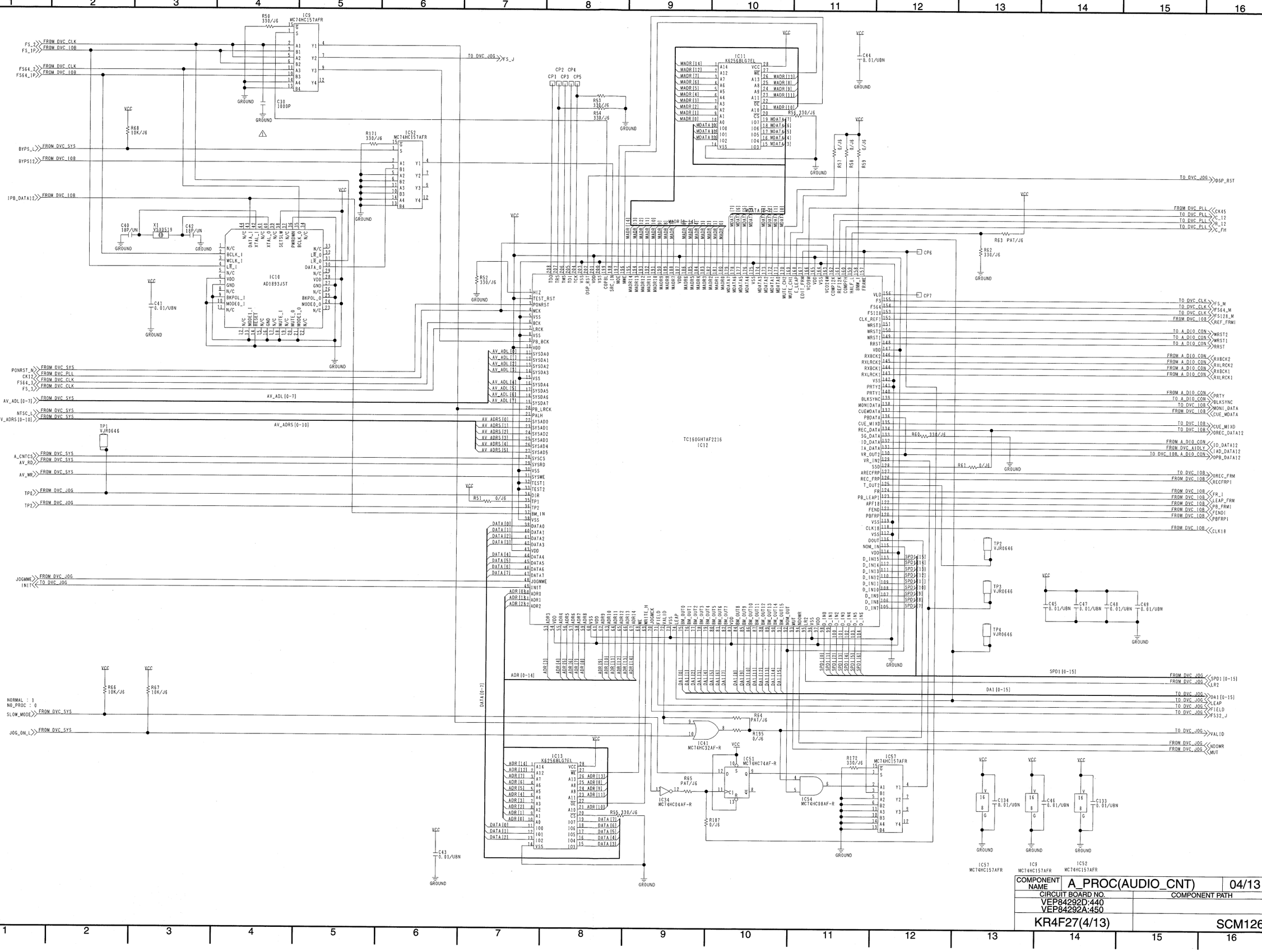
COMPONENT NAME	A_PROC(CONNECTOR)	01/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84292D:440 VEP84292A:450		
KR4F27(1/13)		SCM123



COMPONENT NAME	A_PROC(IO_BUFFER)	02/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(2/13)		SCM124

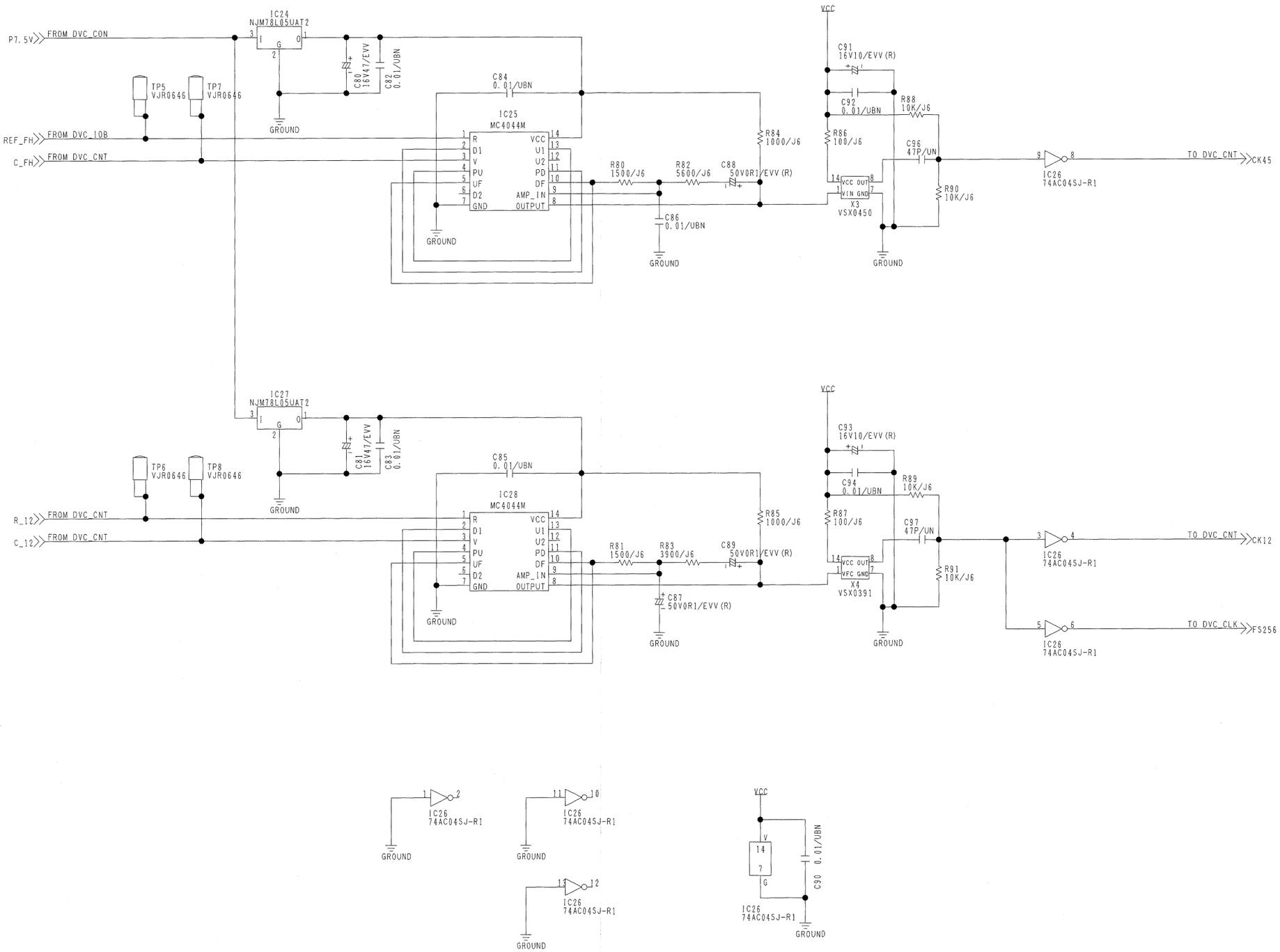


COMPONENT NAME	A_PROC(AIN_DLY)	03/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84292D:440 VEP84292A:450		
KR4F27(3/13)		SCM125

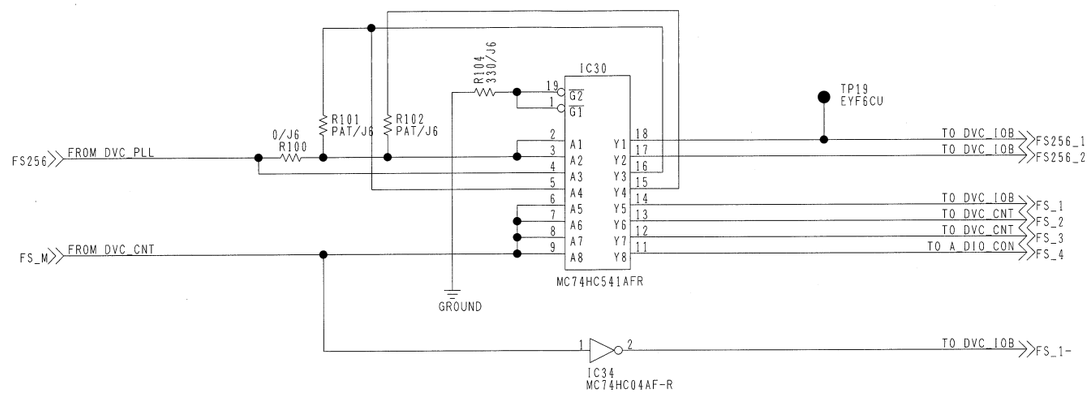


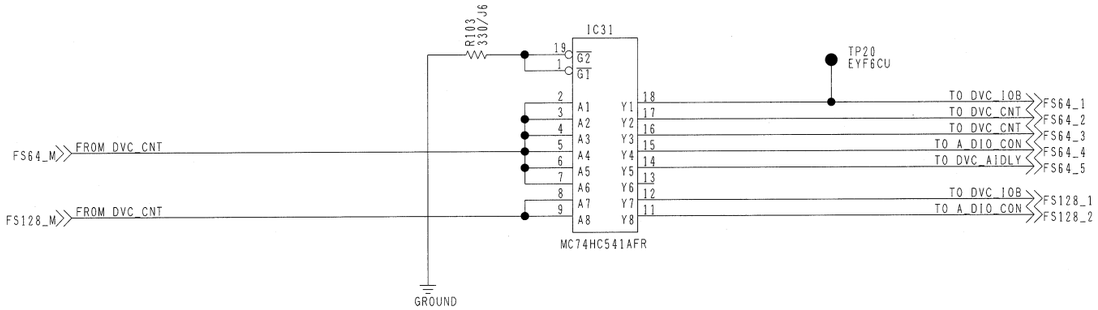
COMPONENT NAME	A_PROC(AUDIO_CNT) 04/13
CIRCUIT BOARD NO.	COMPONENT PATH
VEP84292D:440 VEP84292A:450	
KR4F27(4/13)	SCM126

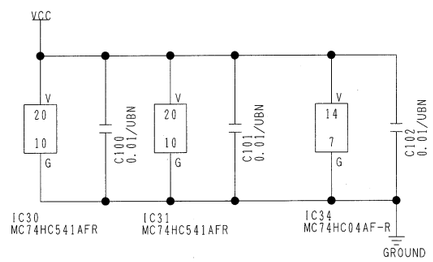
COMPONENT NAME	A_PROC(SLOW_CTL)	05/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84292D:440 VEP84292A:450		
KR4F27(5/13)		SCM127

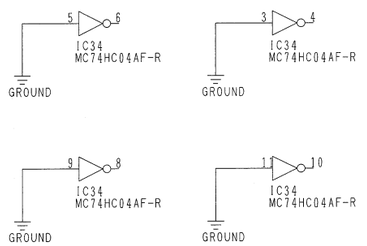


COMPONENT NAME	A_PROC(PLL)	06/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(6/13)		SCM128

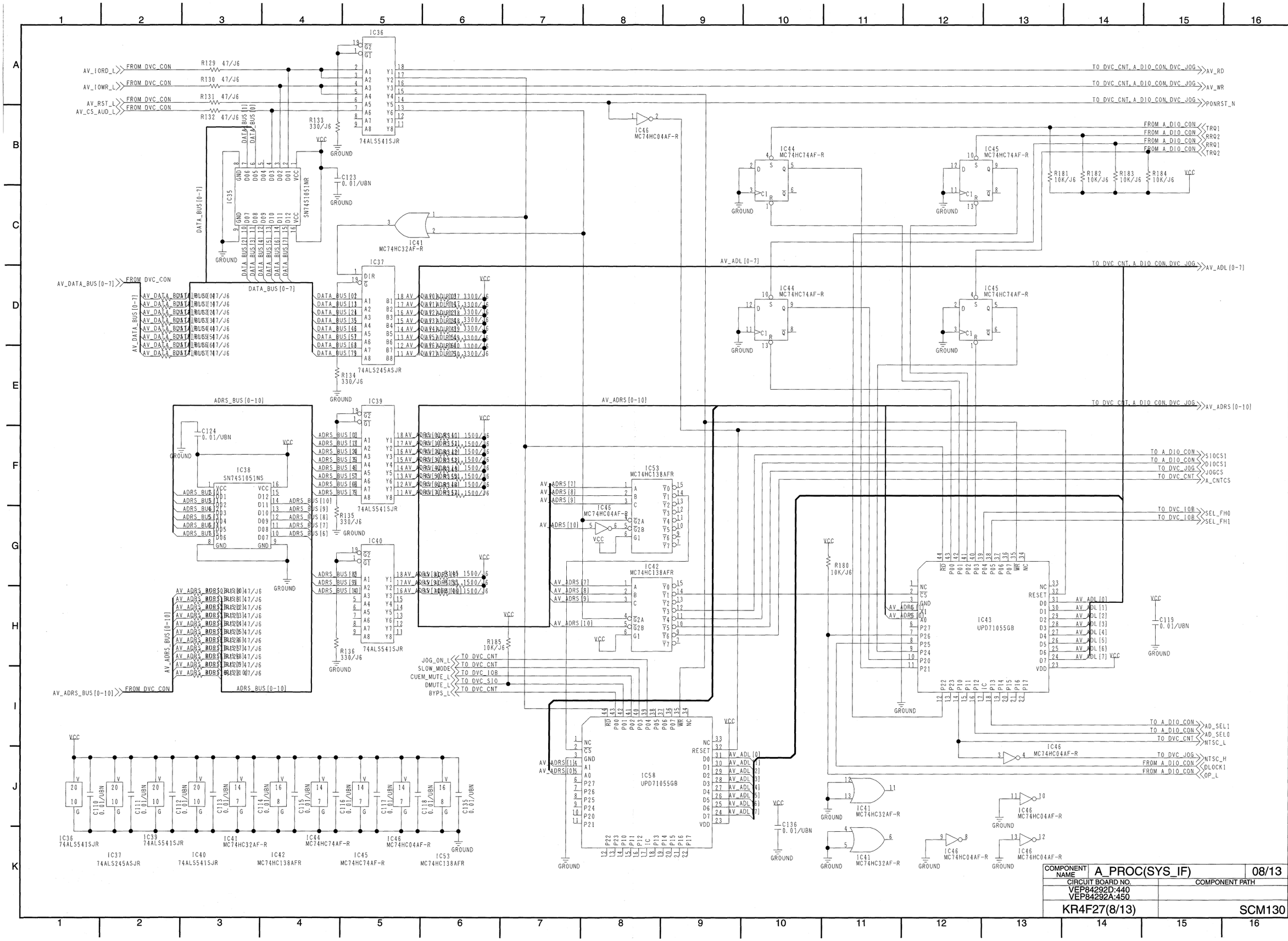




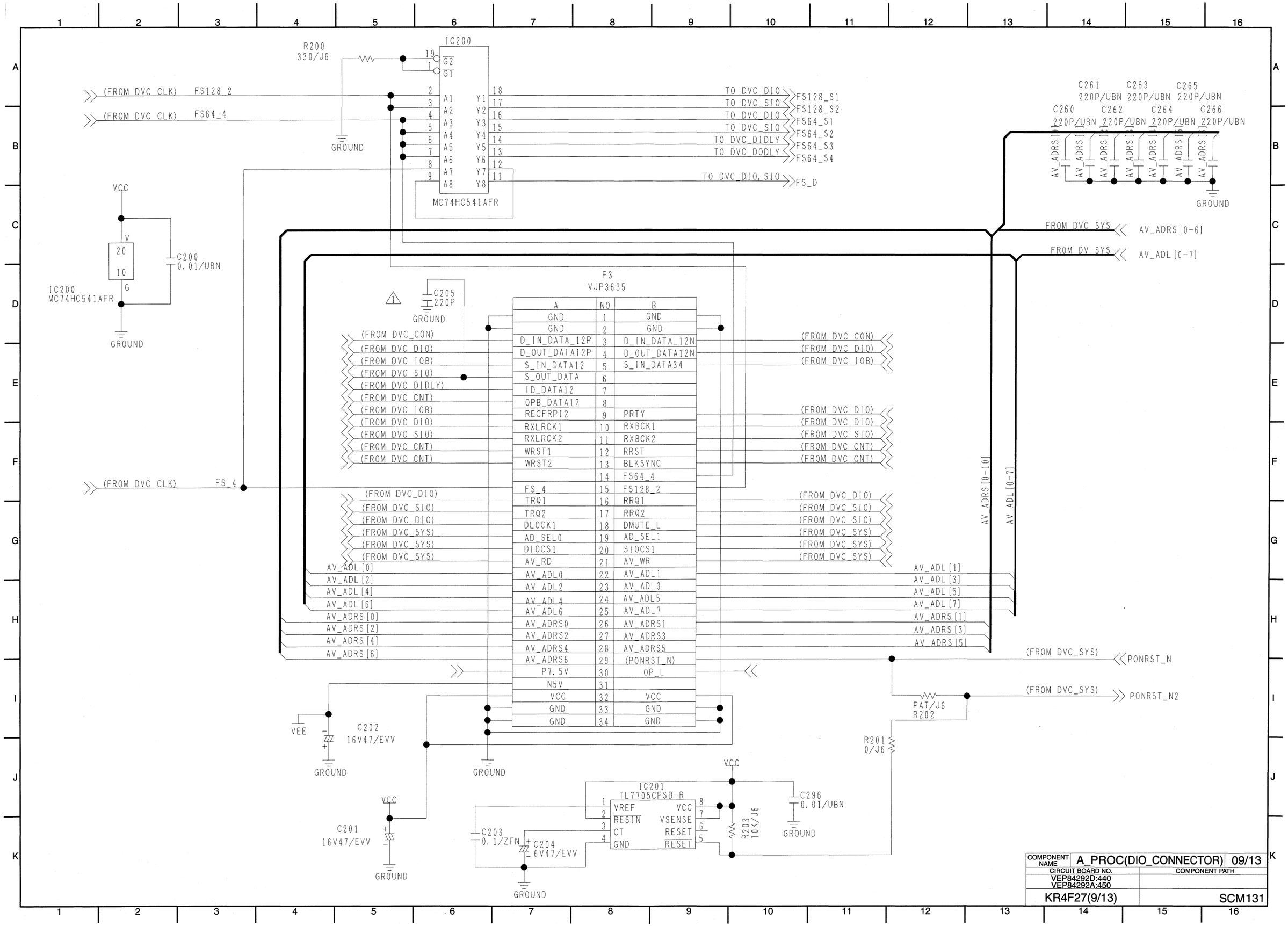




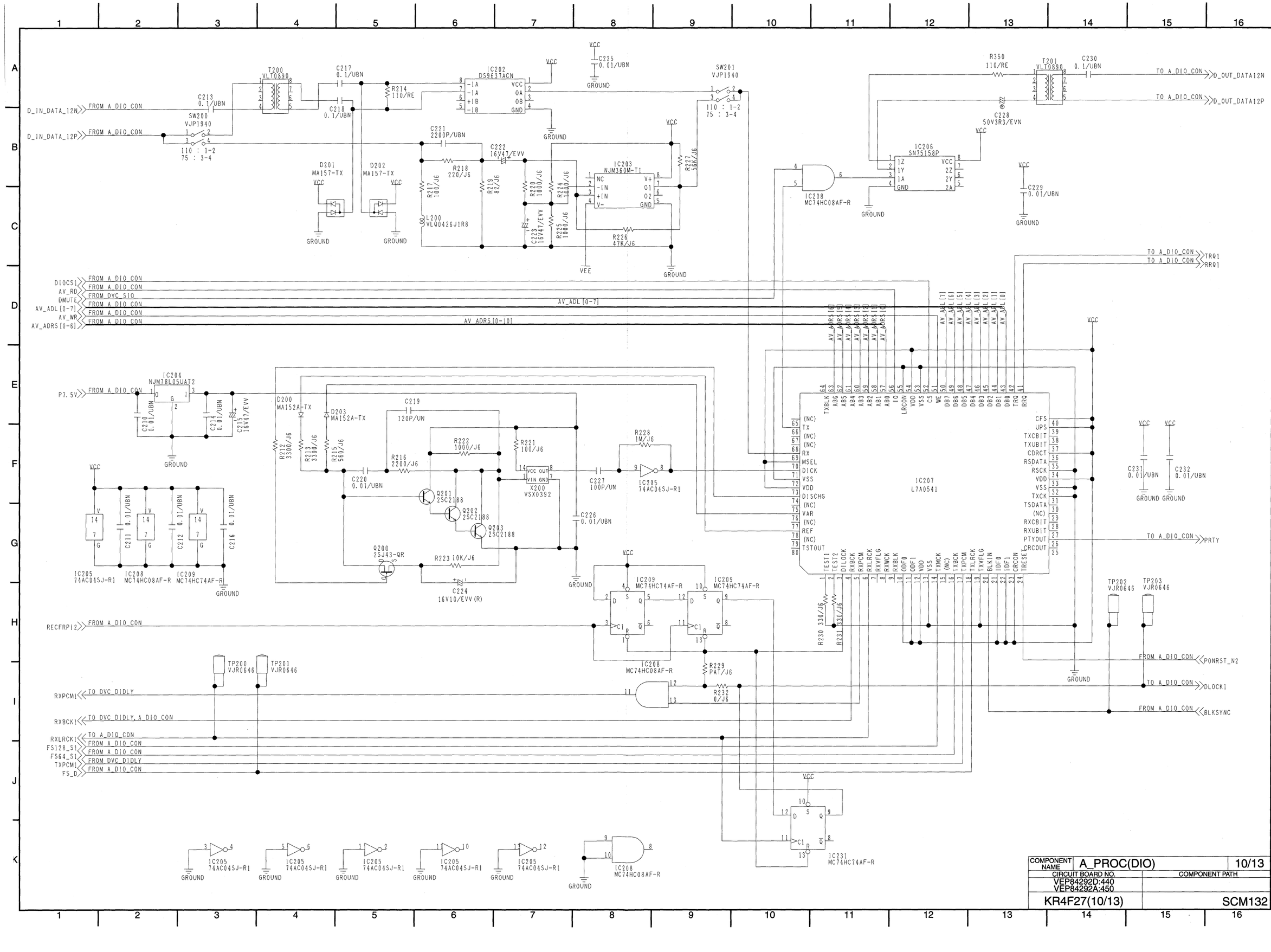
COMPONENT NAME	A_PROC(CLK_BUFFER)	07/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(7/13)		SCM129



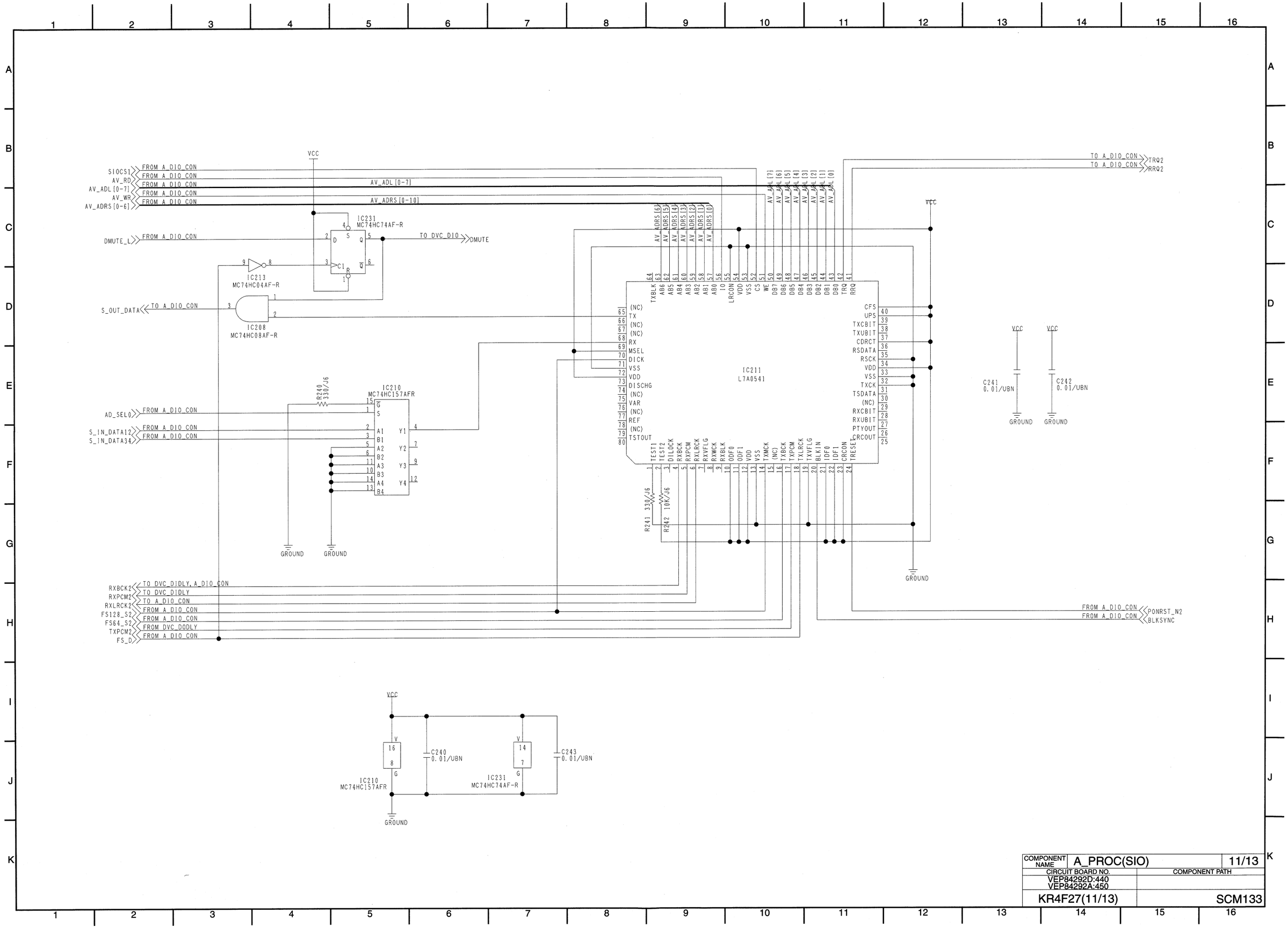
COMPONENT NAME	A_PROC(SYS_IF)	08/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(8/13)		SCM130



COMPONENT NAME	A_PROC(DIO_CONNECTOR)	09/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84292D:440 VEP84292A:450		
KR4F27(9/13)		SCM131



COMPONENT NAME	A_PROC(DIO)	10/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84292D:440 VEP84292A:450		
KR4F27(10/13)		SCM132



COMPONENT NAME	A_PROC(SIO)	11/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84292D:440 VEP84292A:450		
KR4F27(11/13)		SCM133

RXBCK1 FROM DVC_DIO
WRST1 FROM A_DIO_CON
RXPCM1 FROM DVC_DIO
RRST FROM A_DIO_CON
ID_DATA12 TO A_DIO_CON
AD_SEL1 FROM A_DIO_CON
AES/EBU : 0
SERIAL : 1
FS64_S3 FROM A_DIO_CON
RXBCK2 FROM DVC_SIO
WRST2 FROM A_DIO_CON
RXPCM2 FROM DVC_SIO

IC213 MC74HC04AF-R
IC212 MC74HC74AF-R
IC214 UPD42101G-3
IC215 MC74HC157AFR
IC216 UPD42101G-3
IC217 MB621926
IC218 K6256CLG7LEL

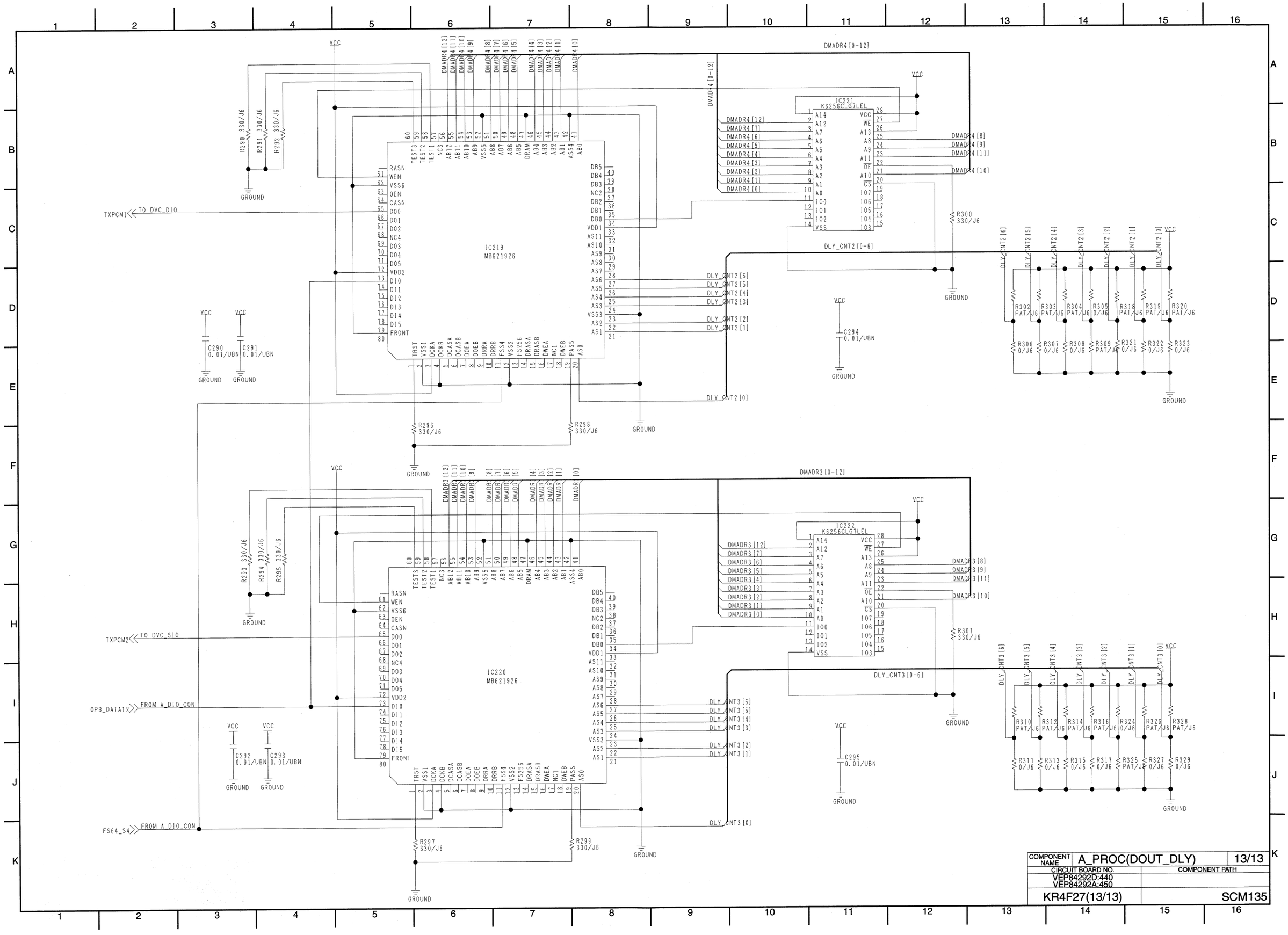
R250 10K/J6
R251 10K/J6
R252 330/J6
R253 330/J6
R254 330/J6
R255 330/J6
R256 330/J6
R257 330/J6
R258 330/J6
R259 PAT/J6
R260 PAT/J6
R261 PAT/J6
R262 0/J6
R263 0/J6
R264 0/J6
R265 PAT/J6
R266 330/J6
R267 PAT/J6
R268 0/J6
R269 PAT/J6
R270 PAT/J6
R271 0/J6
R272 PAT/J6
R273 0/J6
R274 0/J6
R357 0/J6

C250 0.01/UBN
C251 0.01/UBN
C252 0.01/UBN
C253 0.01/UBN
C254 0.01/UBN
C255 0.01/UBN
C256 0.01/UBN
C257 0.01/UBN

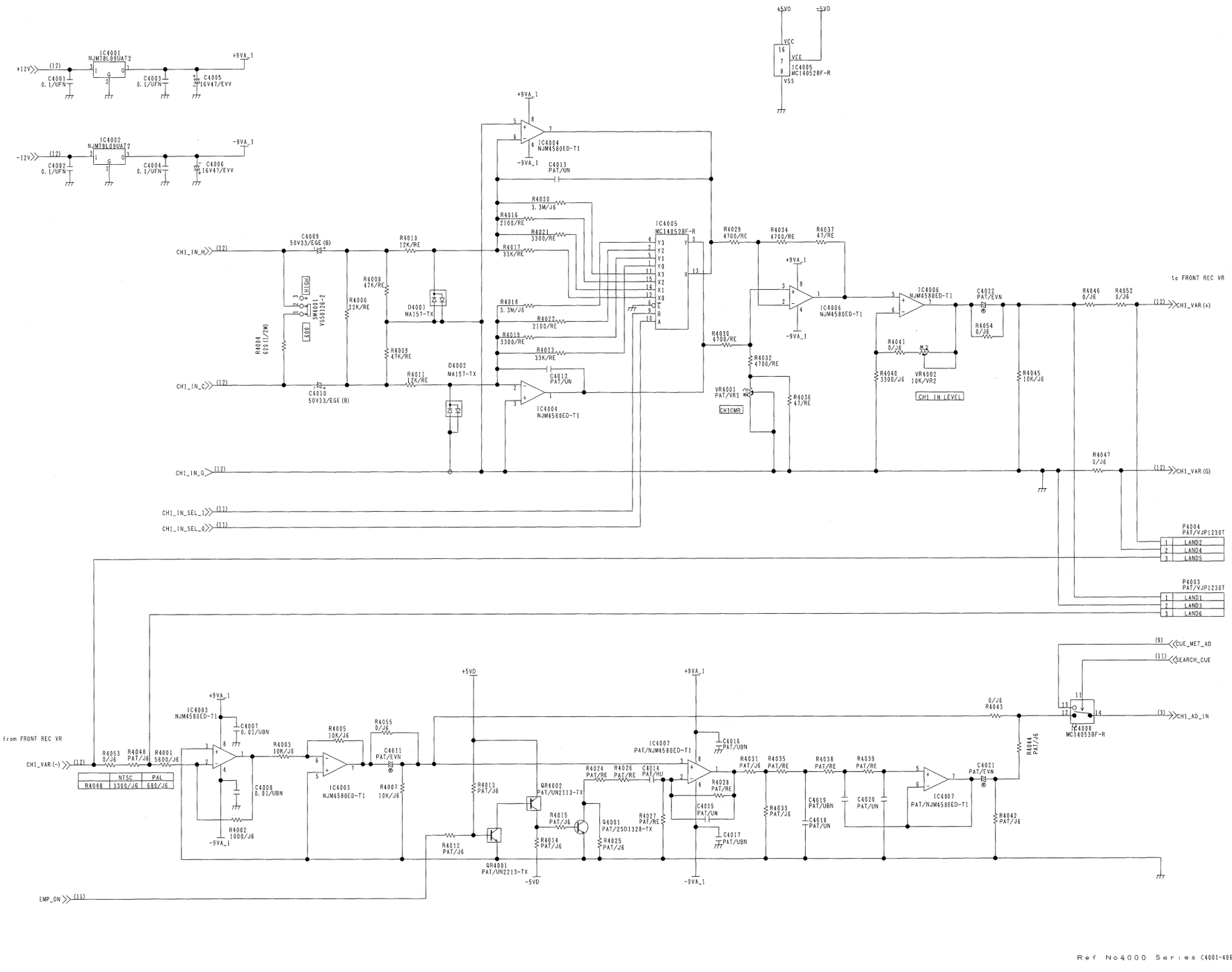
2DDLY1 [0-12]
2DDLY2 [0-12]
2DDLY2 [0]

VCC
GROUND

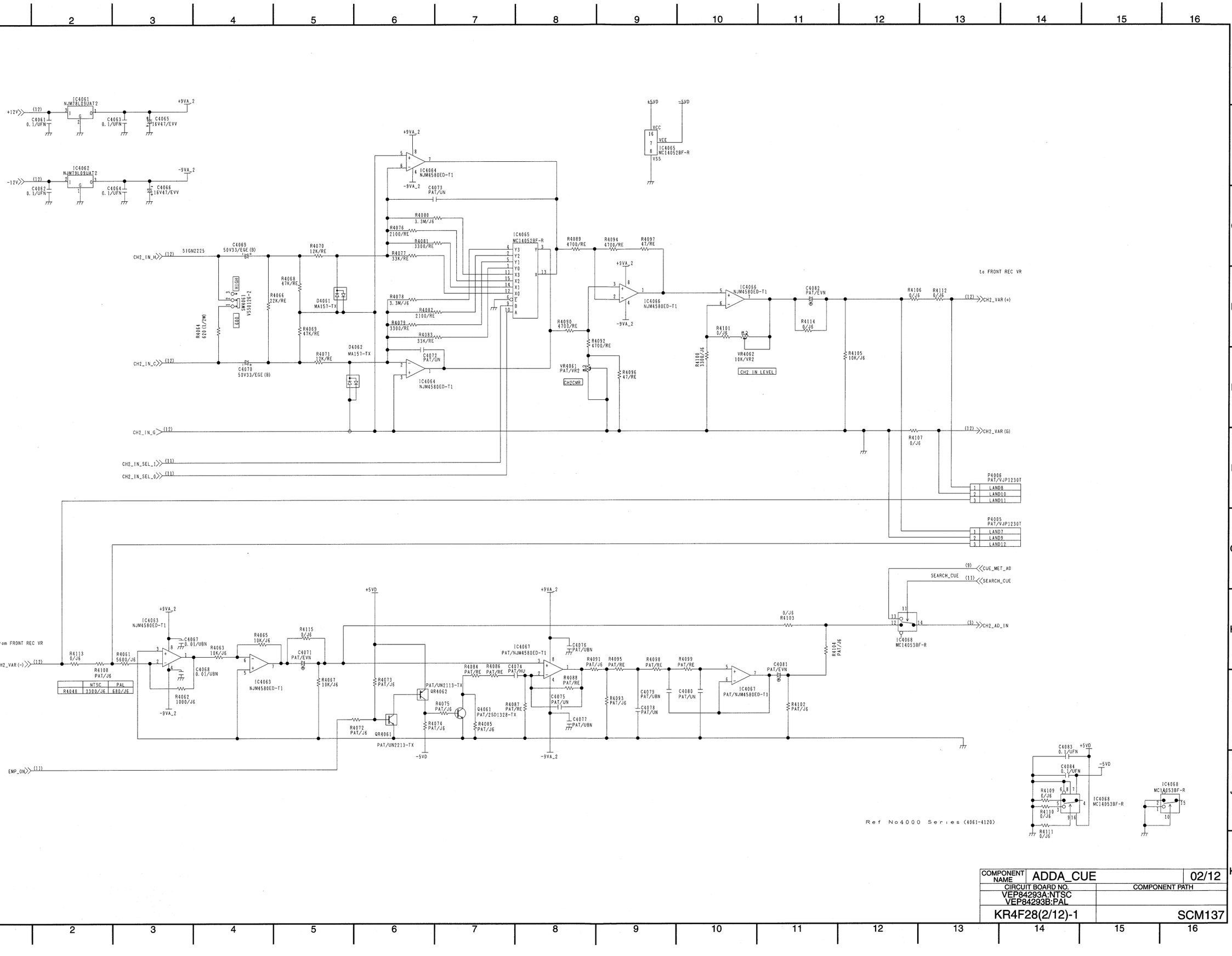
COMPONENT NAME	A_PROC(DIN_DLY) 12/13
CIRCUIT BOARD NO.	COMPONENT PATH
VEP84292D:440 VEP84292A:450	
KR4F27(12/13)	SCM134



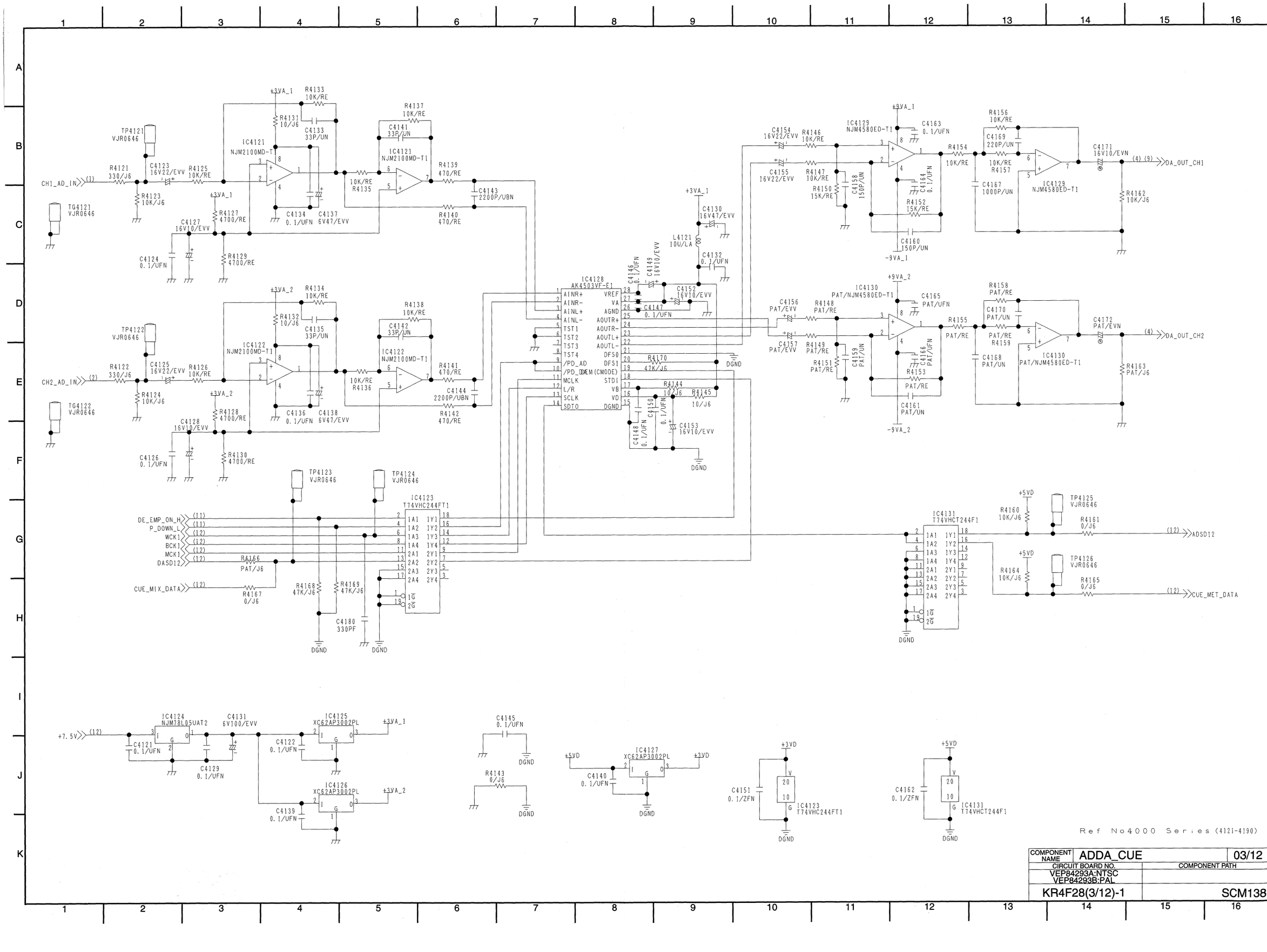
COMPONENT NAME	A_PROC(DOUT_DLY) 13/13
CIRCUIT BOARD NO.	COMPONENT PATH
VEP84292D:440 VEP84292A:450	
KR4F27(13/13)	SCM135



COMPONENT NAME	ADDA_CUE
	01/12
CIRCUIT BOARD NO.	COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL	
KR4F28(1/12)-1	SCM136

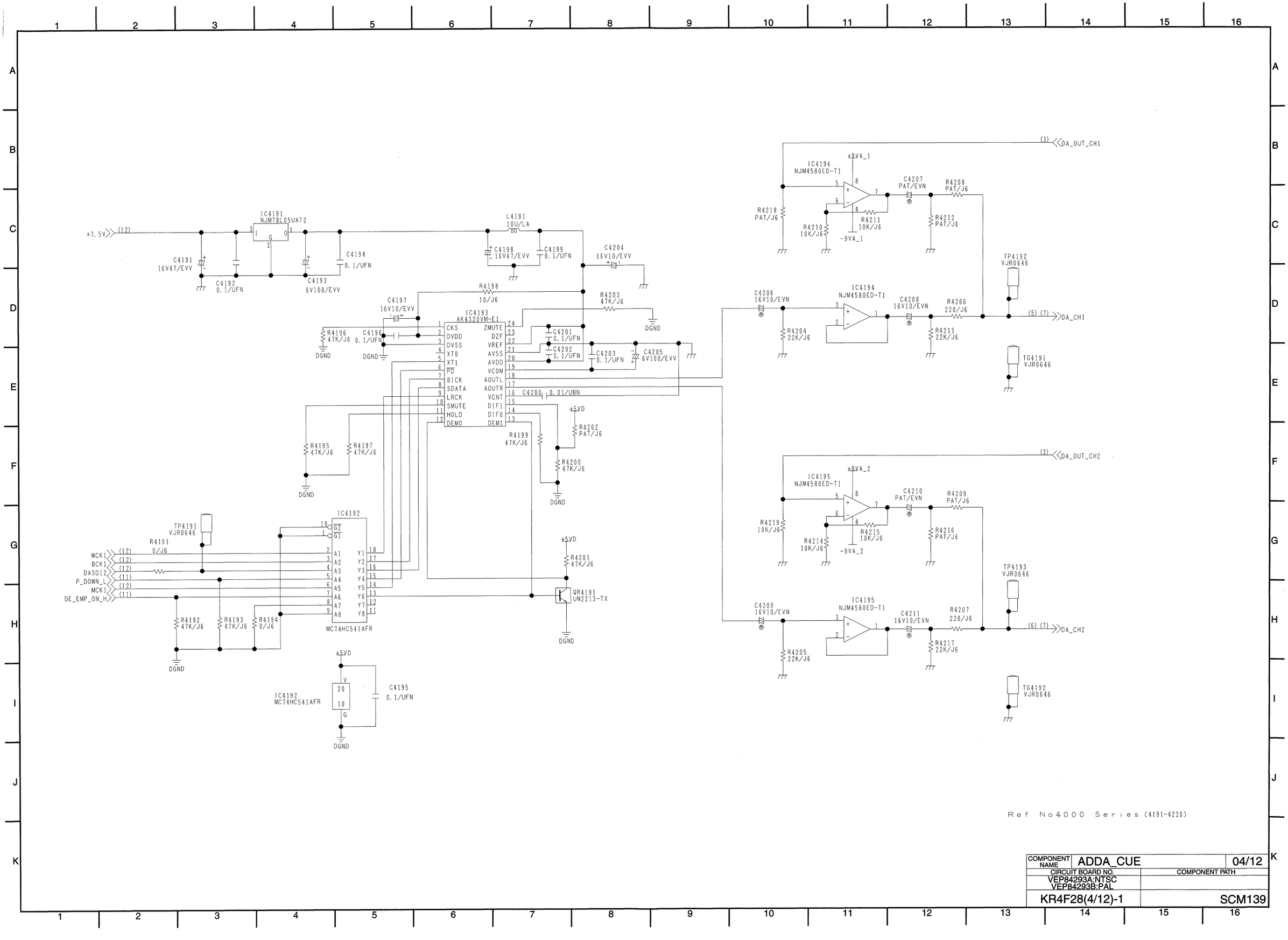


COMPONENT NAME	ADDA_CUE	02/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(2/12)-1		SCM137



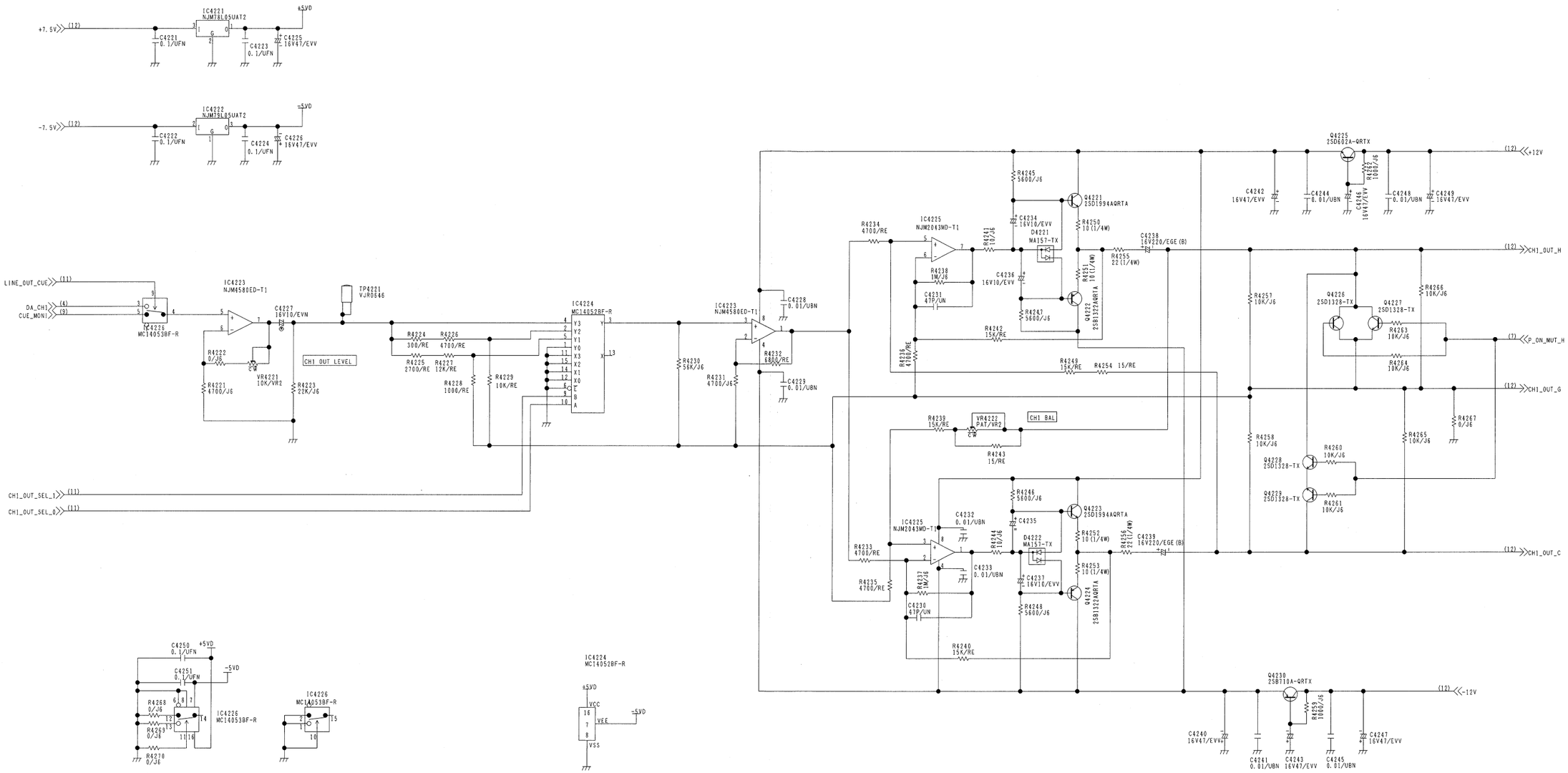
Ref No4000 Series (4121-4190)

COMPONENT NAME	ADDA_CUE	03/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(3/12)-1		SCM138



Ref No4000 Series (4191-4220)

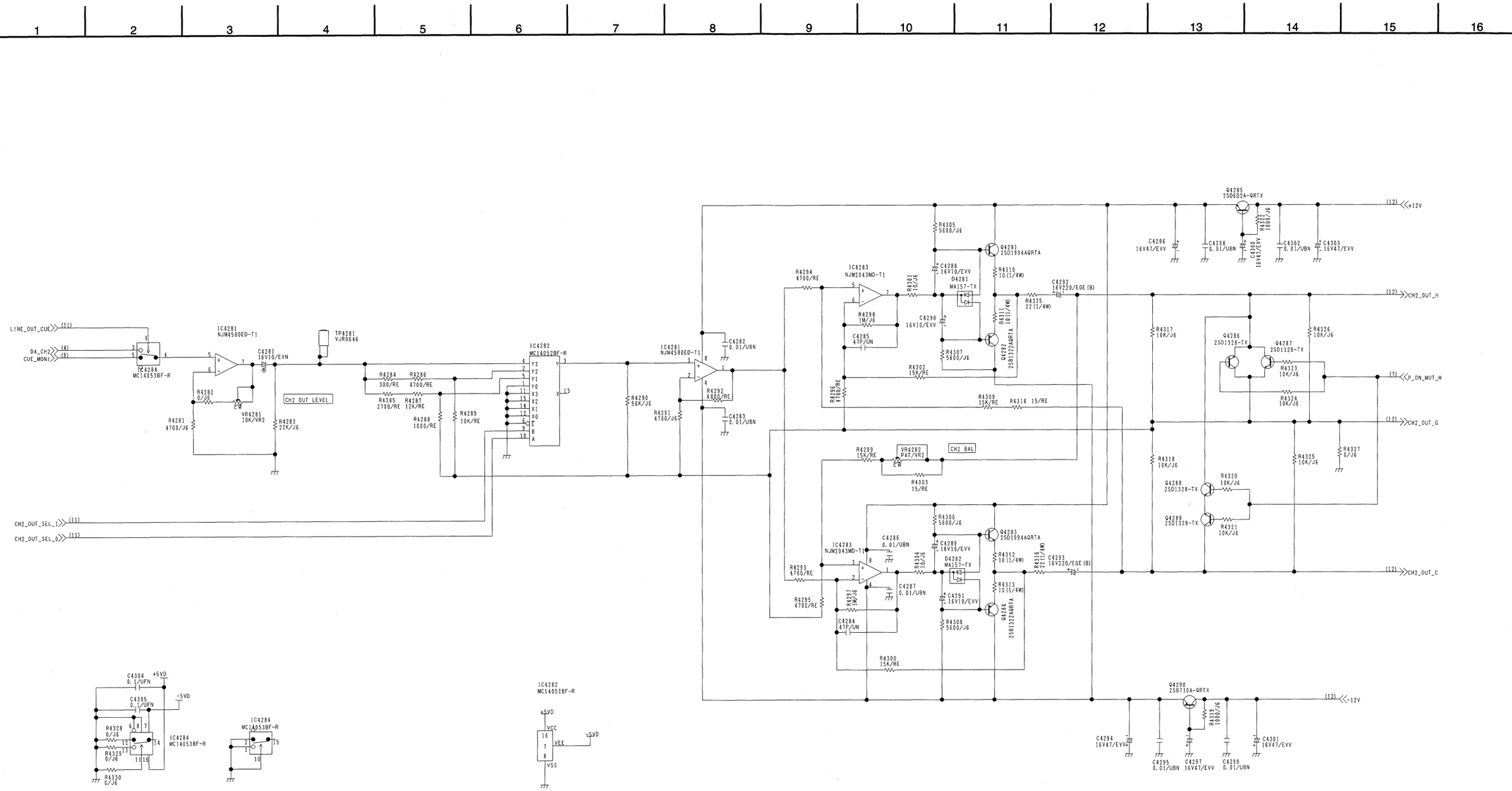
COMPONENT NAME	ADDA_CUE	04/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(4/12)-1		SCM139



CONTROL SIGNAL		OUTPUT LEVEL	
(SEL_0) A	(SEL_1) B		
0	0	Y0	MUTE
1	0	Y1	−20dBu
0	1	Y2	0dBu
1	1	Y3	+4dBu

Ref No4000 Series (4221-4288)

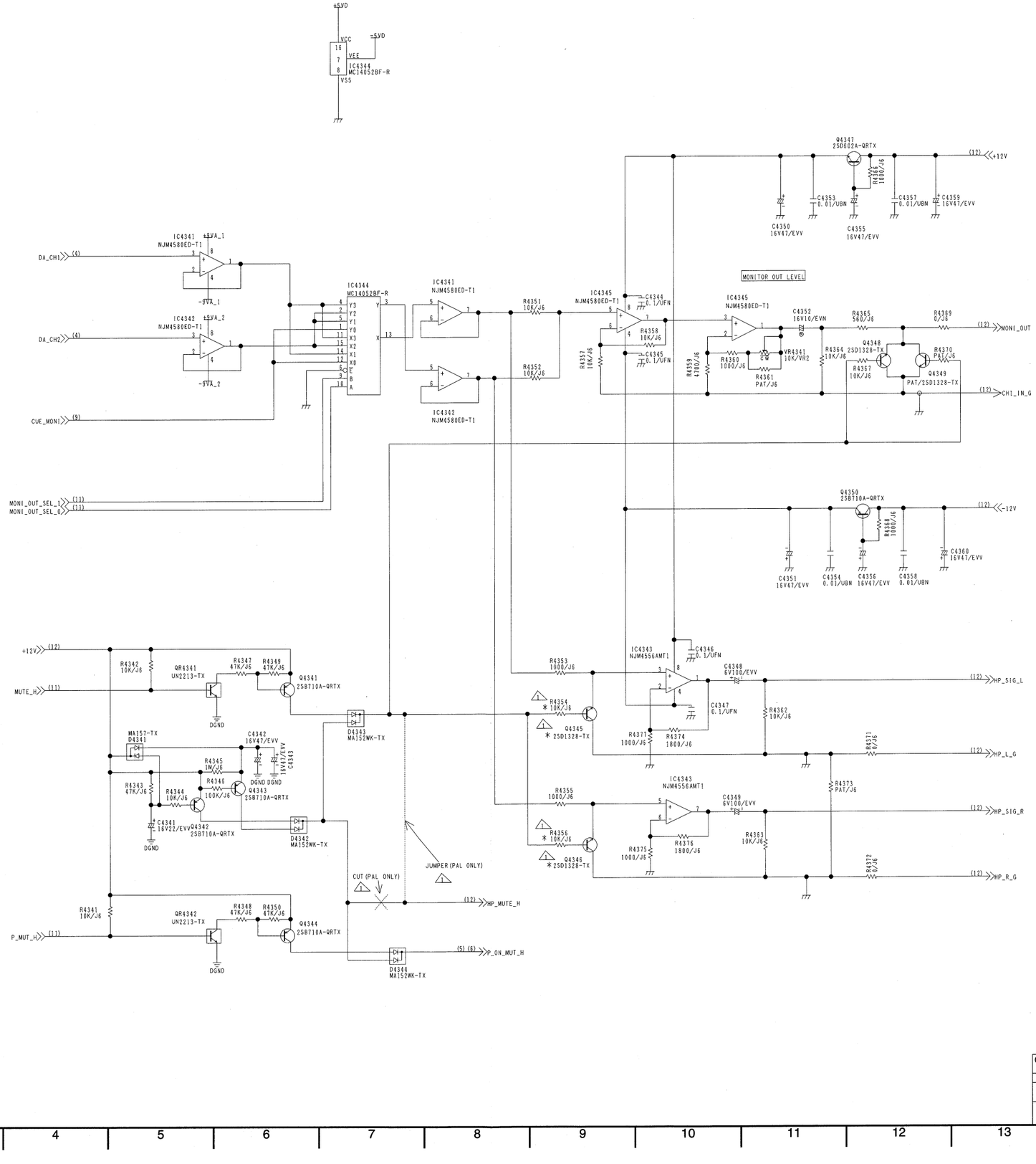
COMPONENT NAME	ADDA_CUE	05/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(5/12)-1		SCM140



CONTROL SIGNAL		OUTPUT LEVEL	
(SEL_0) A	(SEL_1) B		
0	0	Y0	MUTE
1	0	Y1	−20dBu
0	1	Y2	0dBu
1	1	Y3	+4dBu

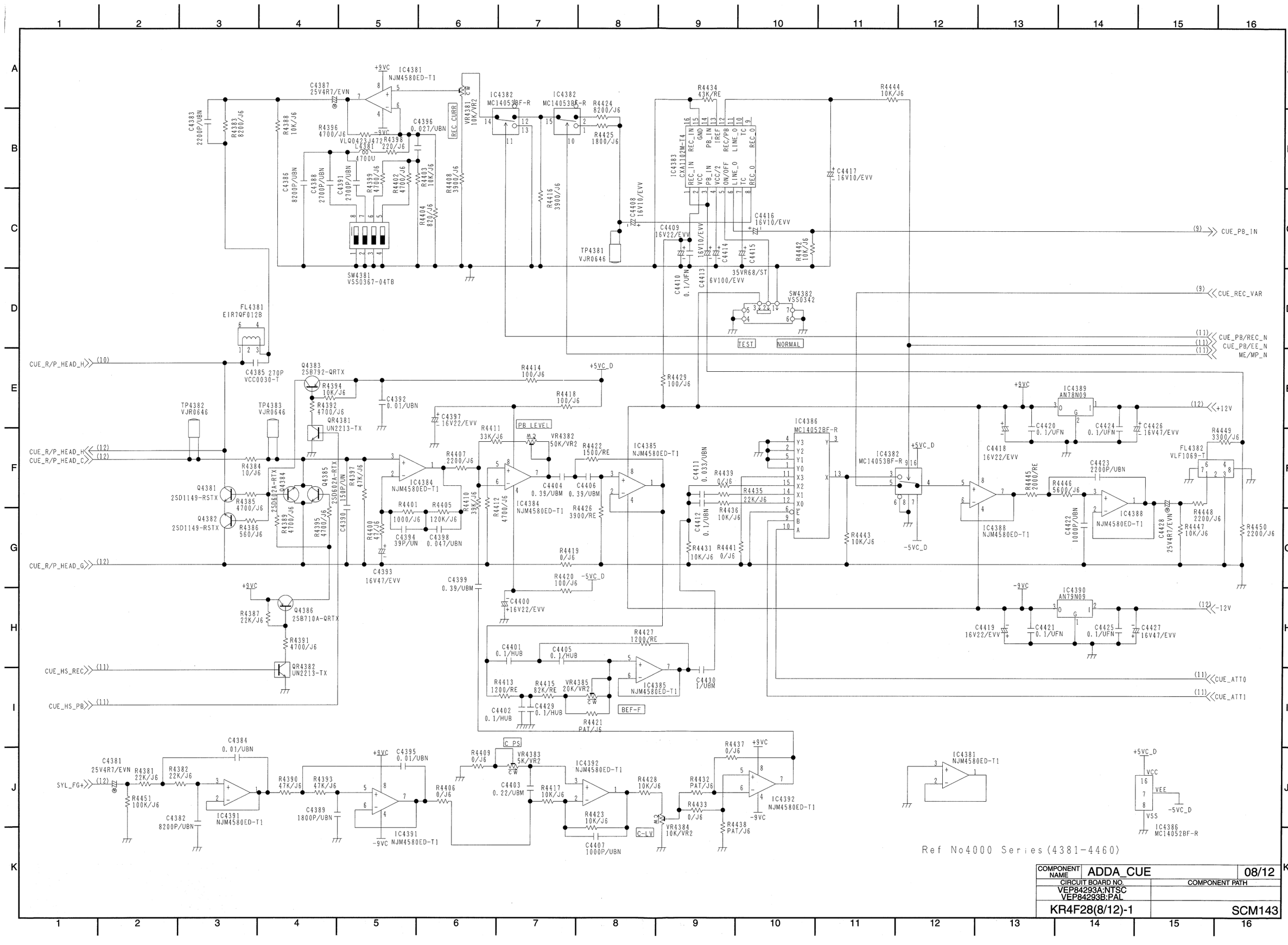
Ref No4000 Series (4281-4340)

COMPONENT NAME	ADDA_CUE	06/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(6/12)-1		SCM141

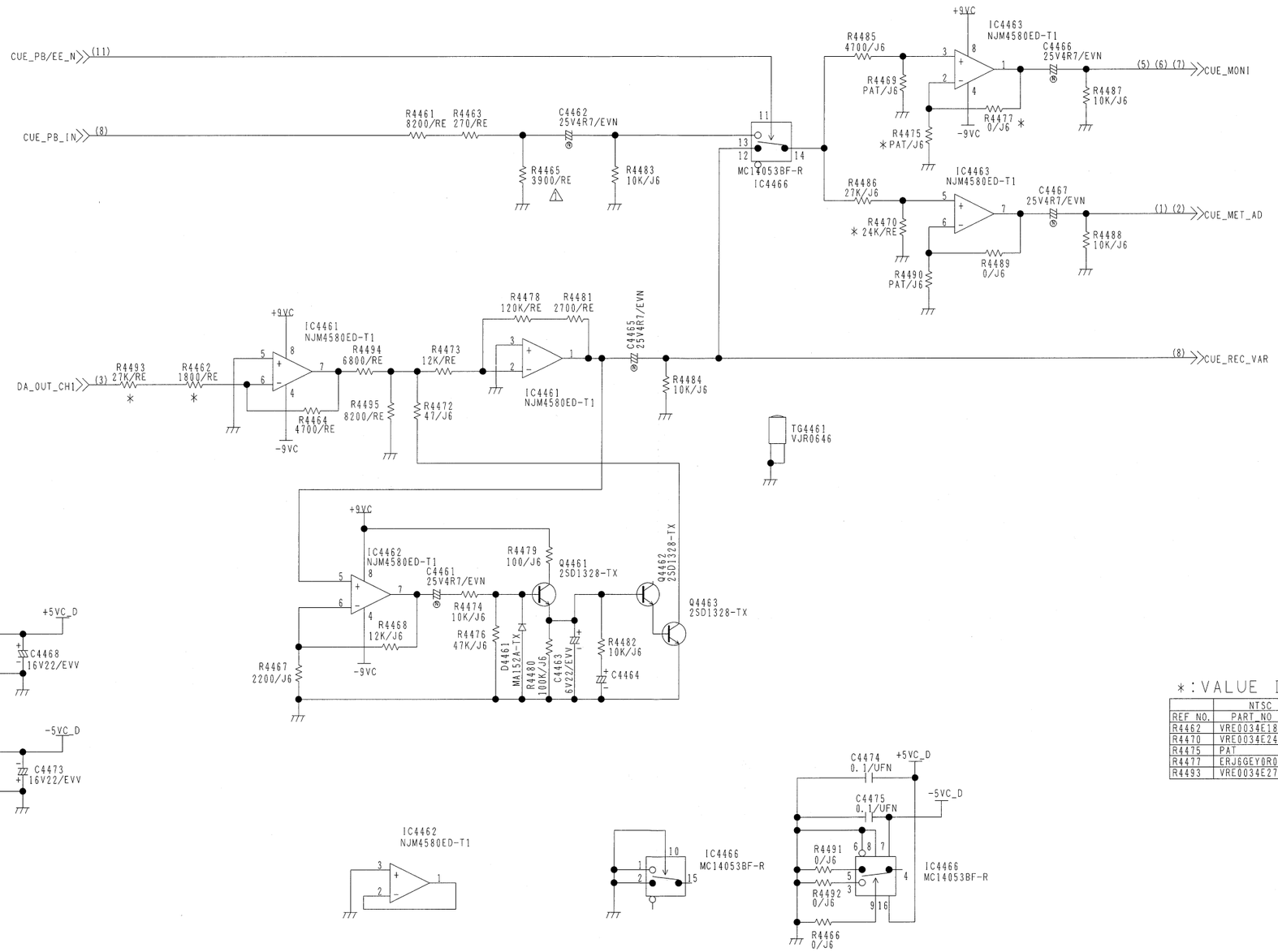


Ref No.4000 Series (4341-4380)

COMPONENT NAME	ADDA_CUE	07/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(7/12)-1		SCM142



COMPONENT NAME	ADDA_CUE	08/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(8/12)-1		SCM143

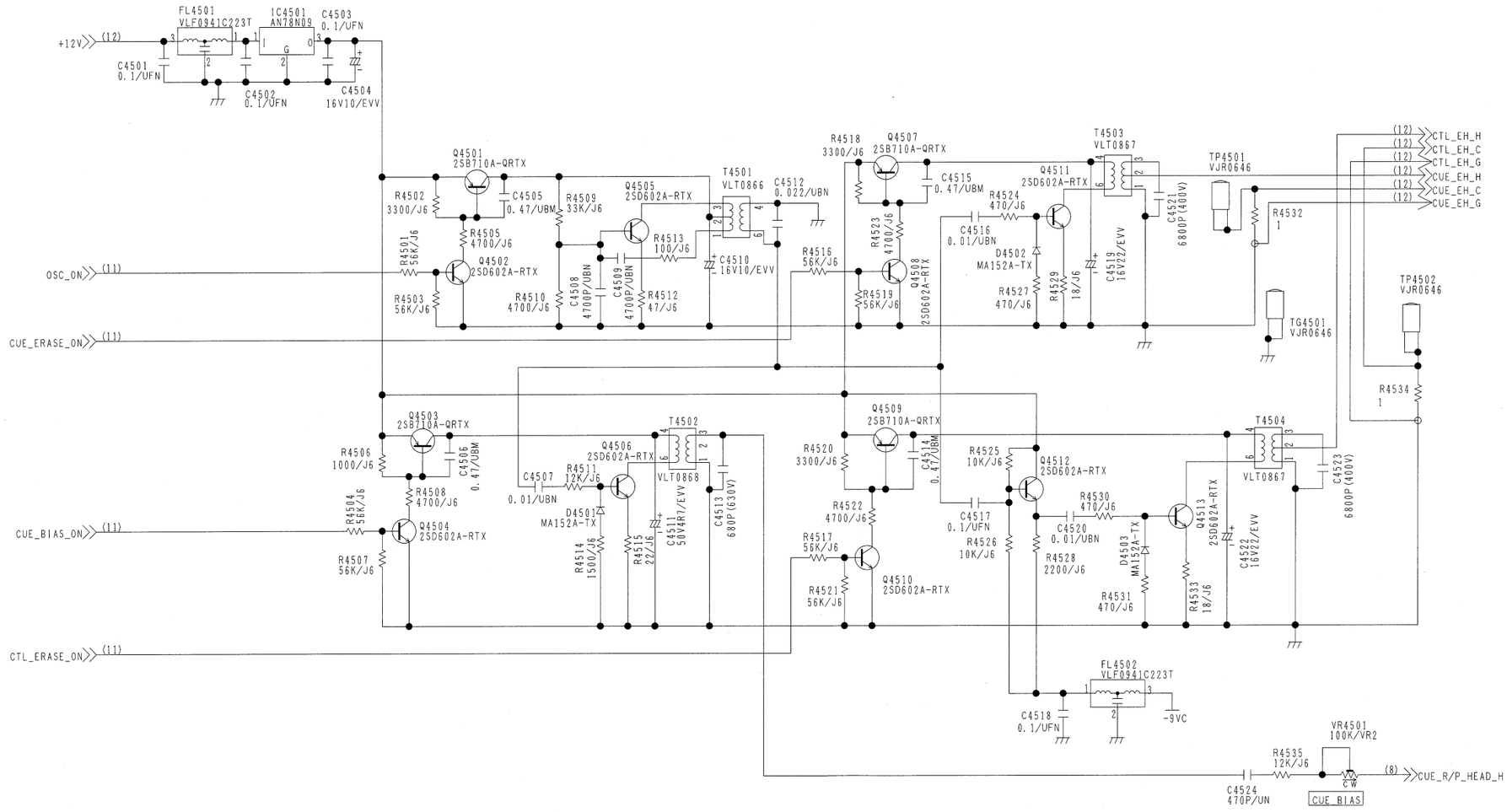


*:VALUE IS DIFFARENT for PAL

	NTSC		PAL	
REF NO.	PART NO	VAL	PART NO	VAL
R4462	VRE0034E182	1800/RE	VRE0034E183	18K/RE
R4470	VRE0034E243	24K/RE	ERJ6GEYJ393V	39K/RE
R4475	PAT	PAT/J6	ERJ6GEYJ392V	3900/J6
R4477	ERJ6GEY0R00V	0/J6	ERJ6GEYJ122V	1200/J6
R4493	VRE0034E273	27K/RE	VRE0034E183	18K/RE

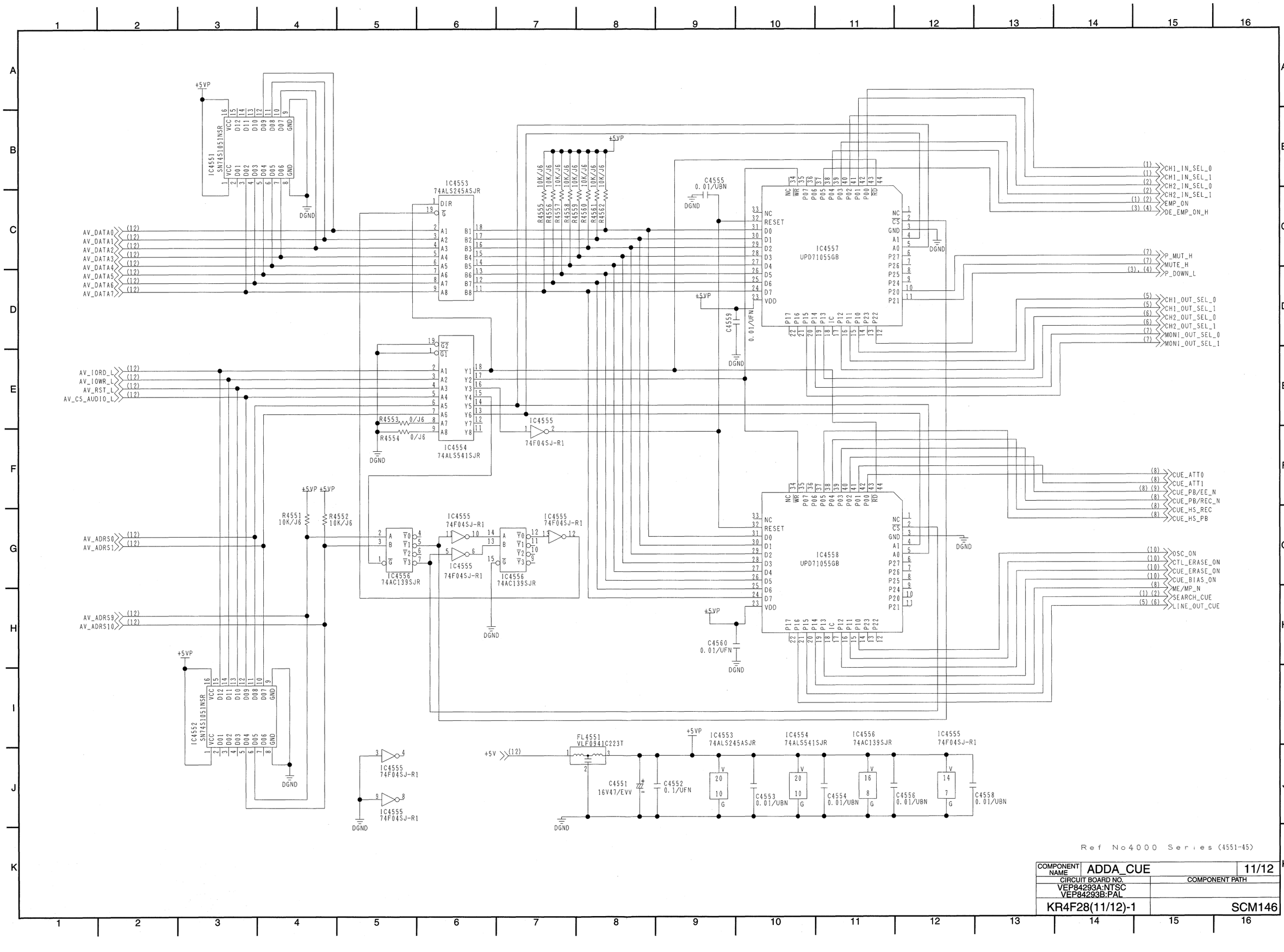
Ref No4000 Series(4461-4500)

COMPONENT NAME	ADDA_CUE	09/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(9/12)-1		SCM144



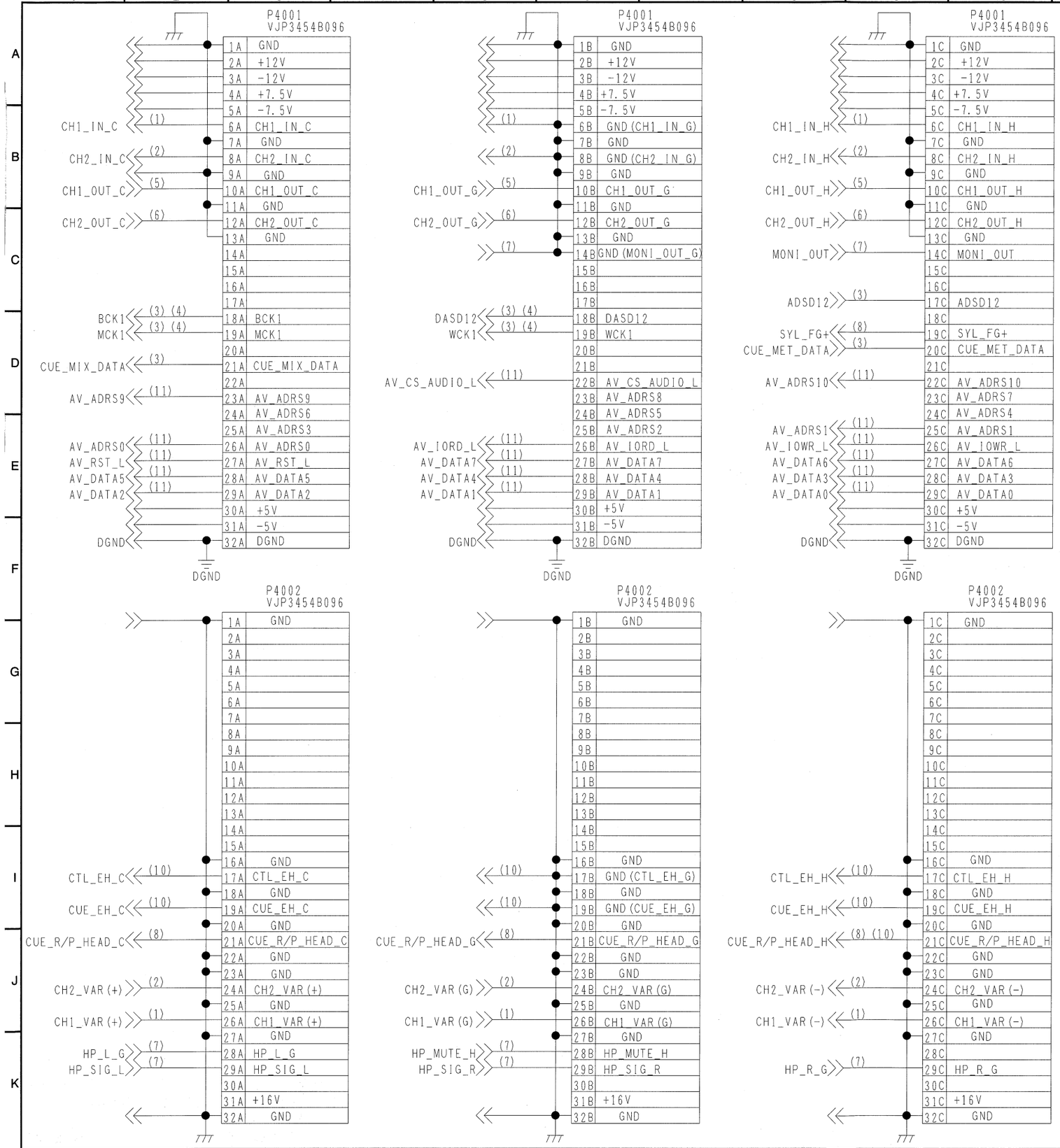
Ref No4000 Series(4501-4550)

COMPONENT NAME	ADDA_CUE	10/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(10/12)-1		SCM145



Ref No4000 Series (4551-45)

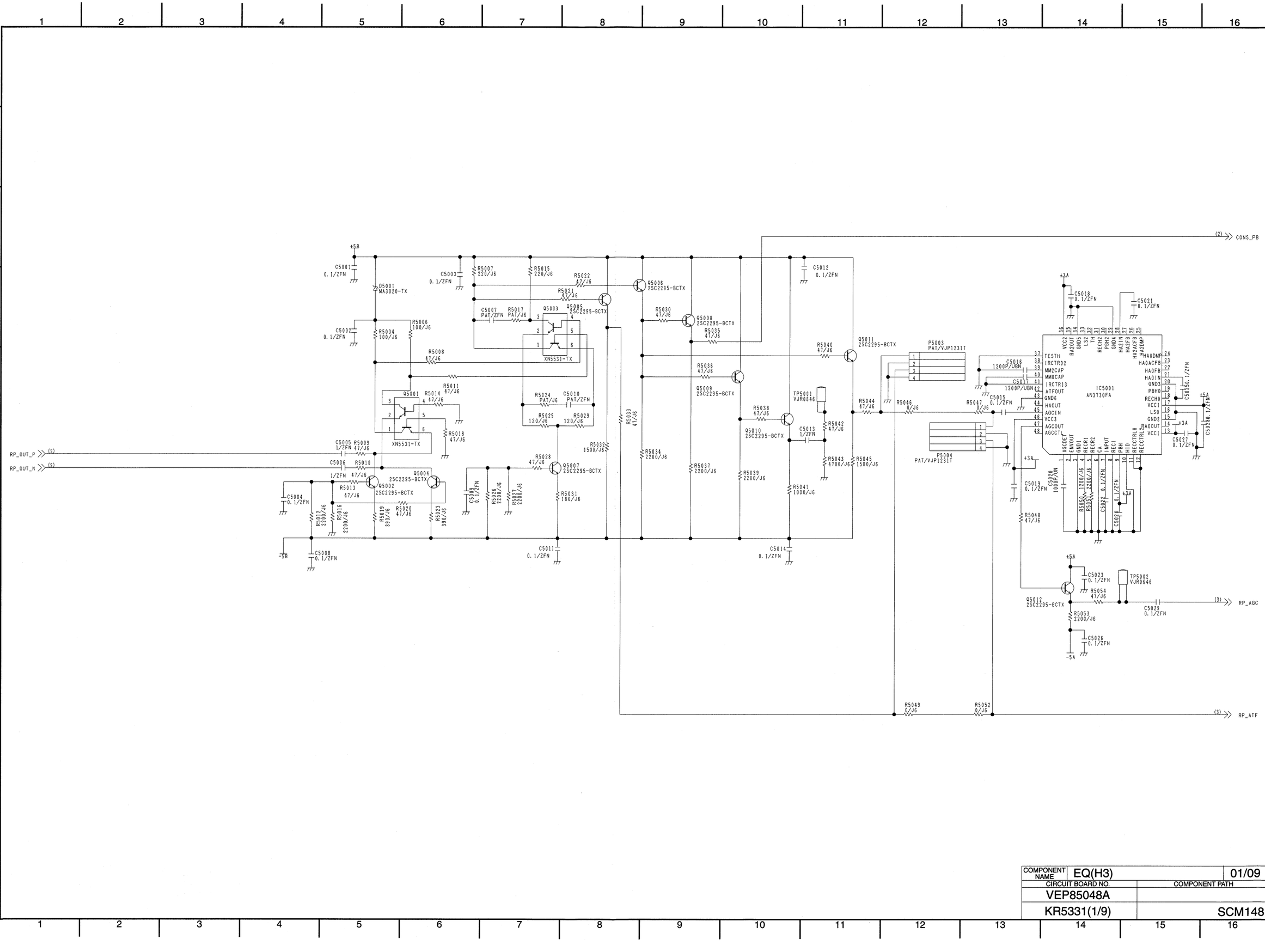
COMPONENT NAME	ADDA_CUE	11/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(11/12)-1		SCM146



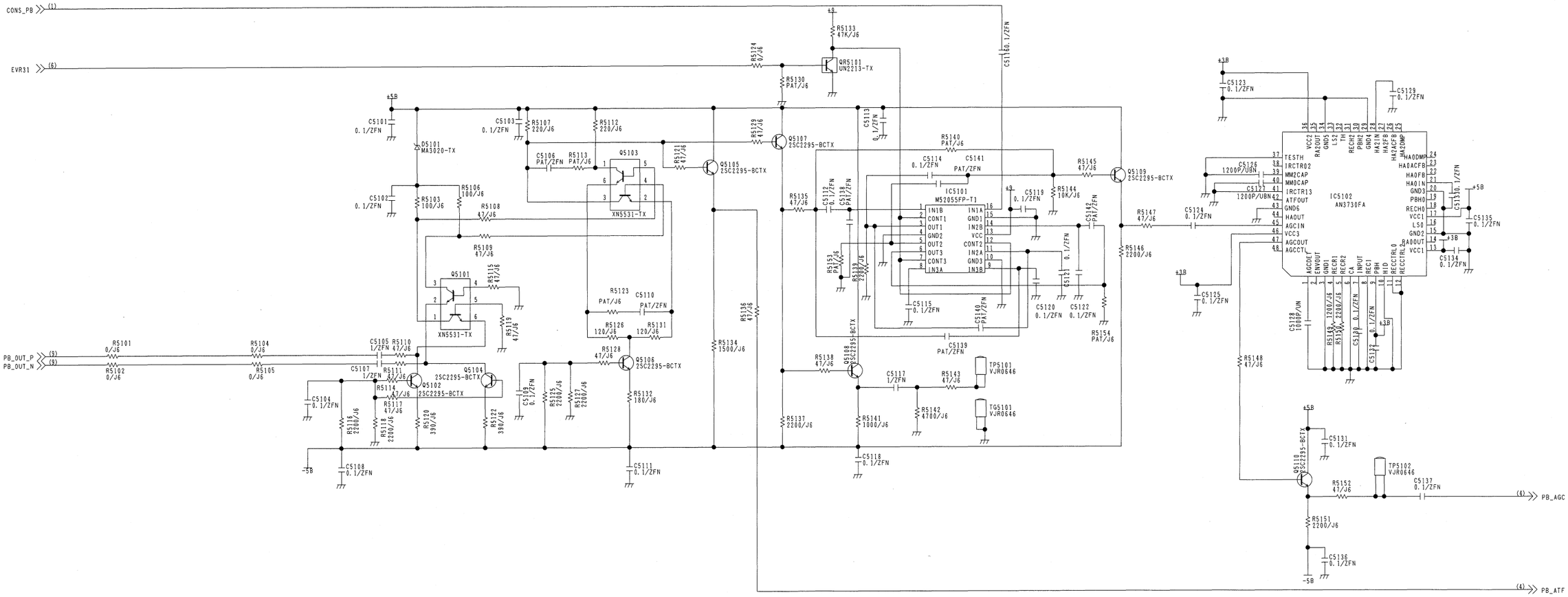
NO.	DATE	TDE NO,	NAME	NO,	DATE	TDE NO,	NAME
1				11			
2				12			
3				13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

Ref No4000 Series

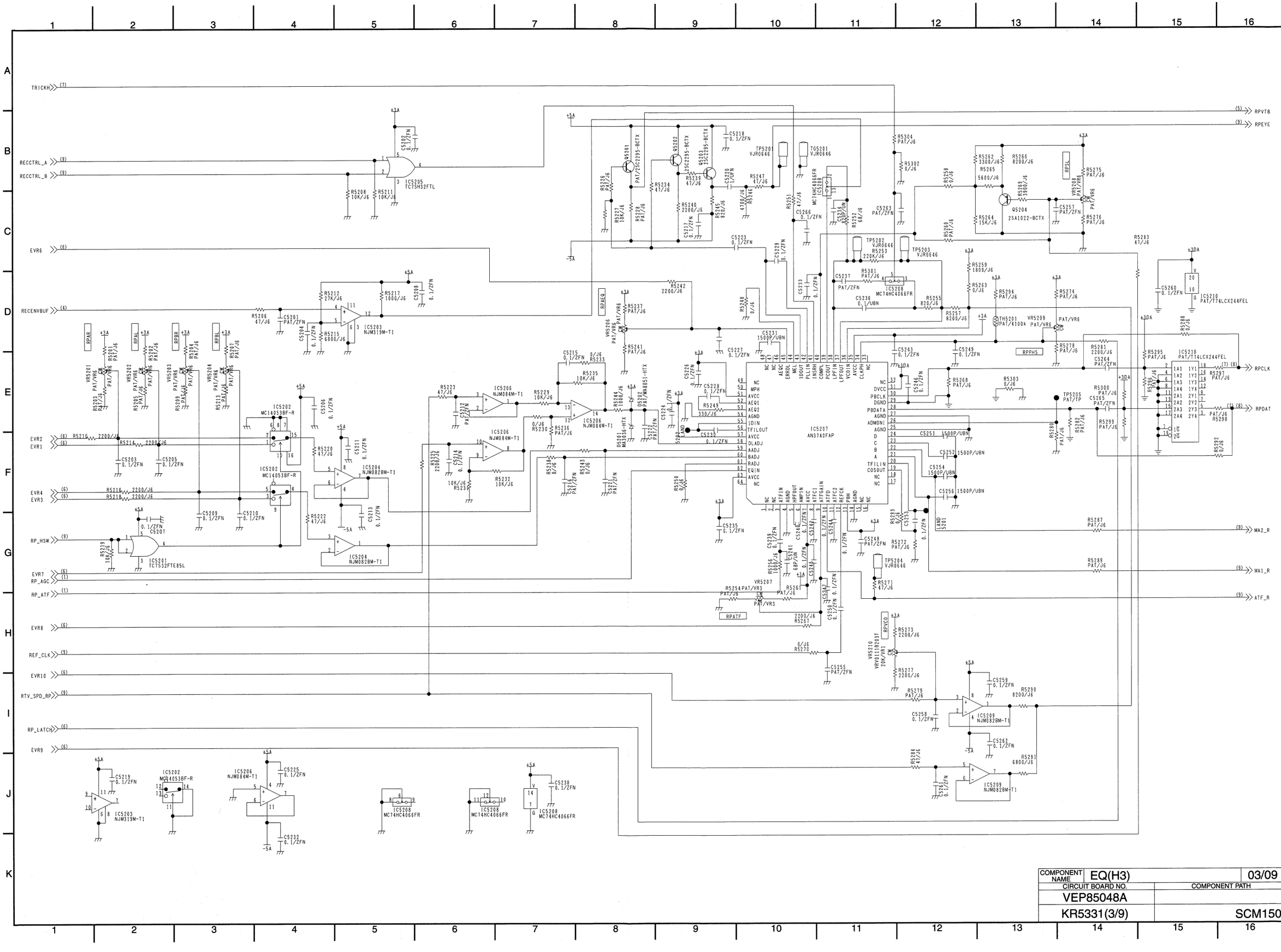
COMPONENT NAME	ADDA_CUE	12/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(12/12)-1		SCM147



COMPONENT NAME	EQ(H3)	01/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(1/9)		SCM148

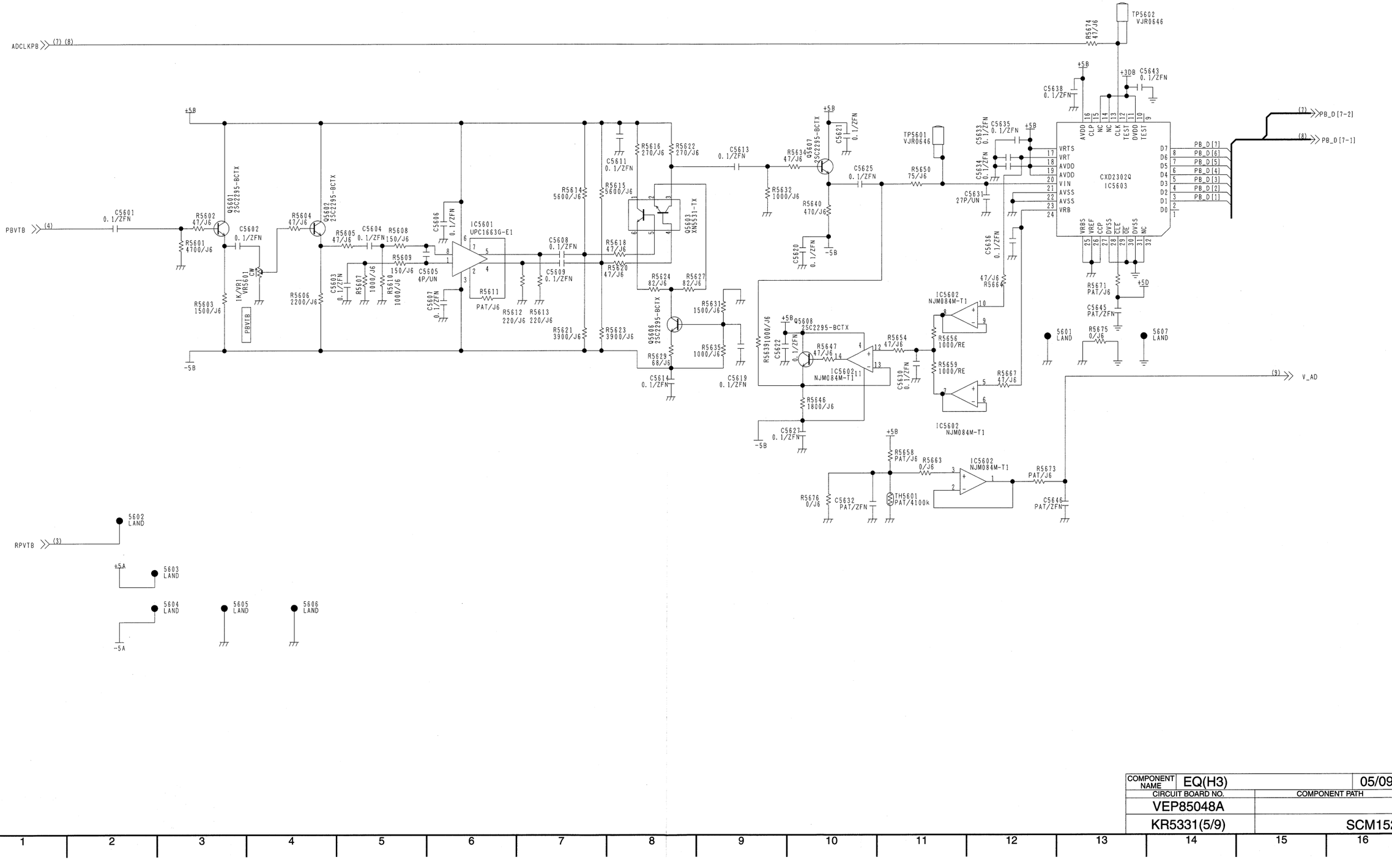


COMPONENT NAME	EQ(H3)	02/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(2/9)		SCM149

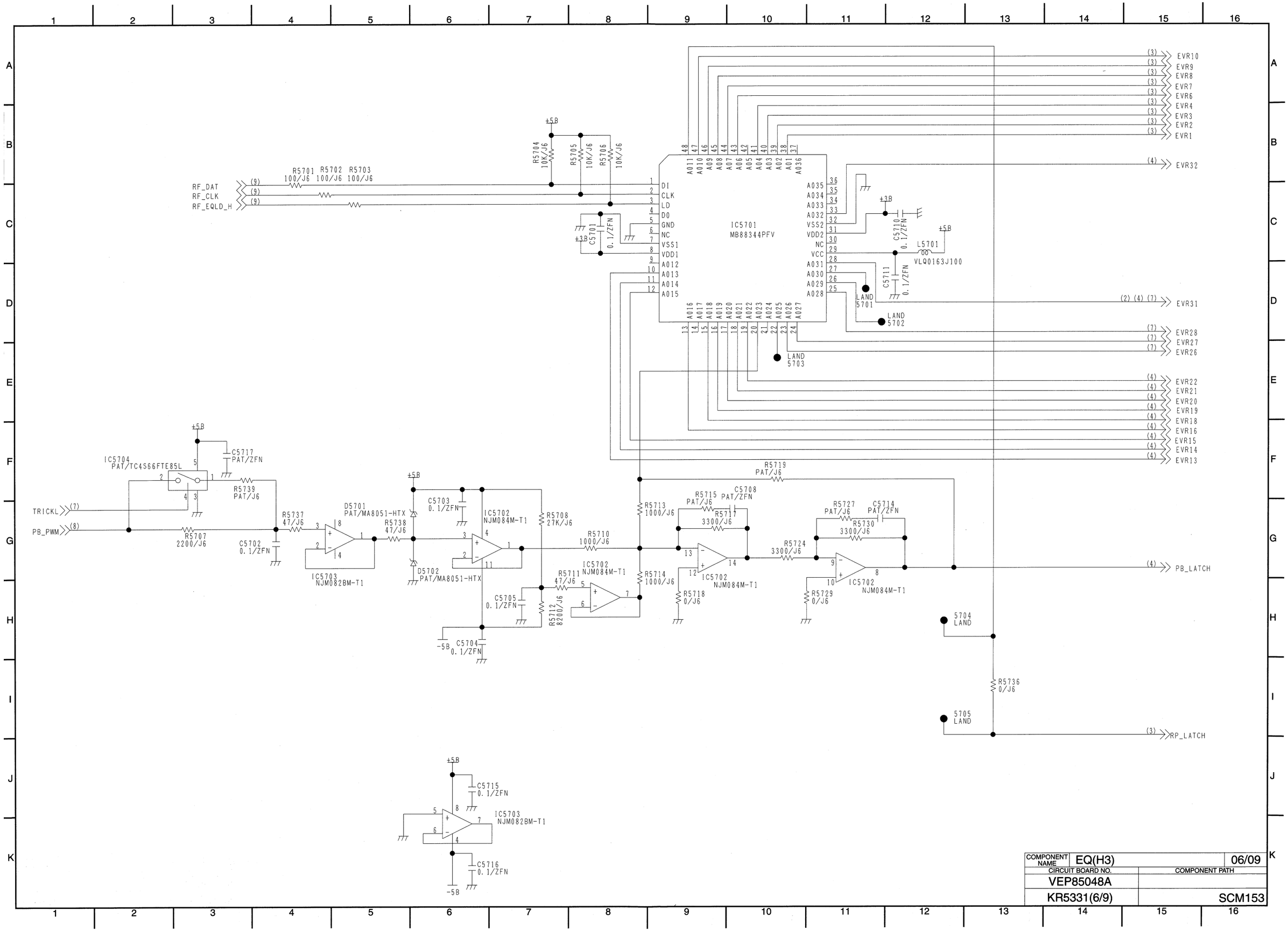


COMPONENT NAME	EQ(H3)	03/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(3/9)		SCM150

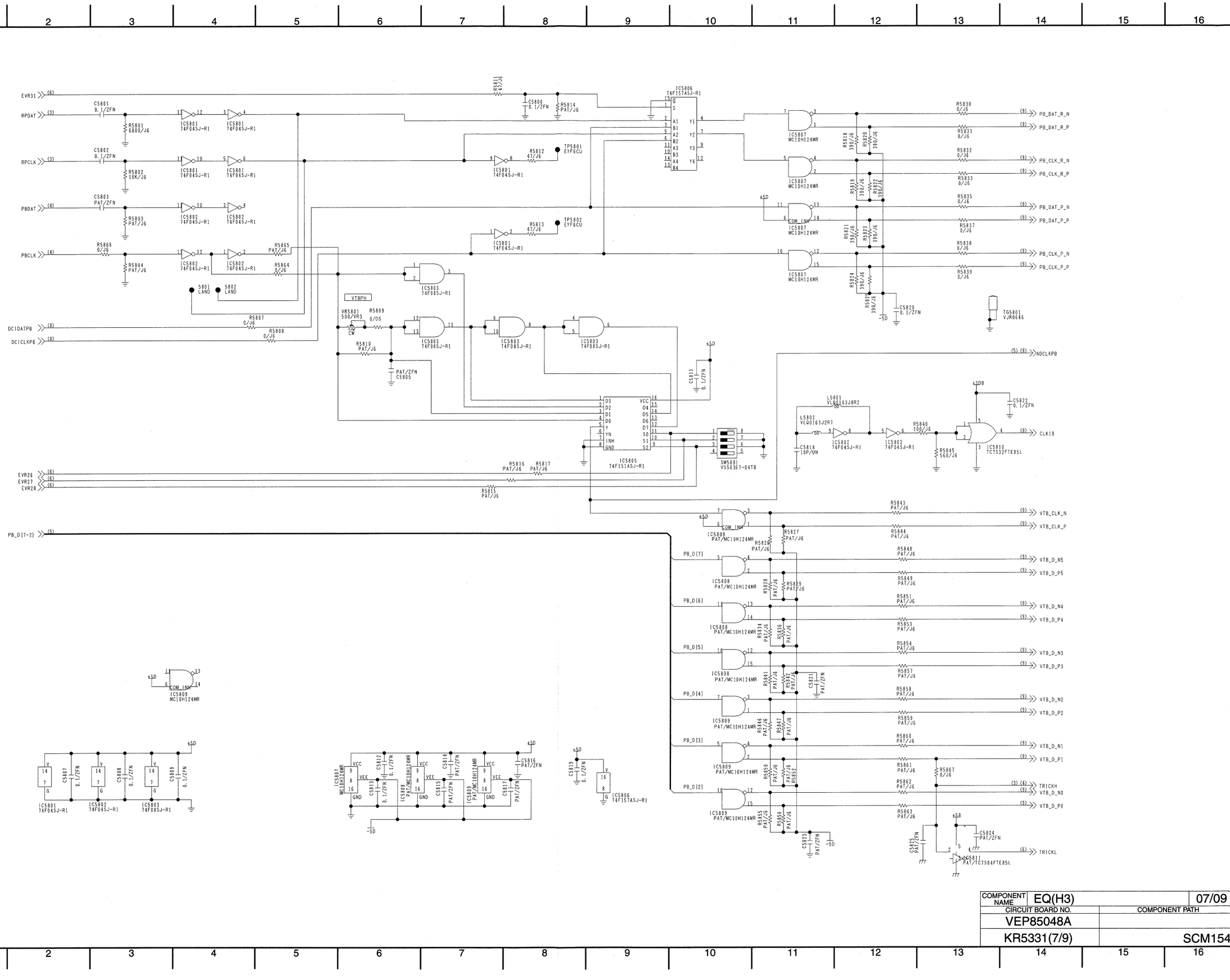
COMPONENT NAME	EQ(H3)	04/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(4/9)		SCM151



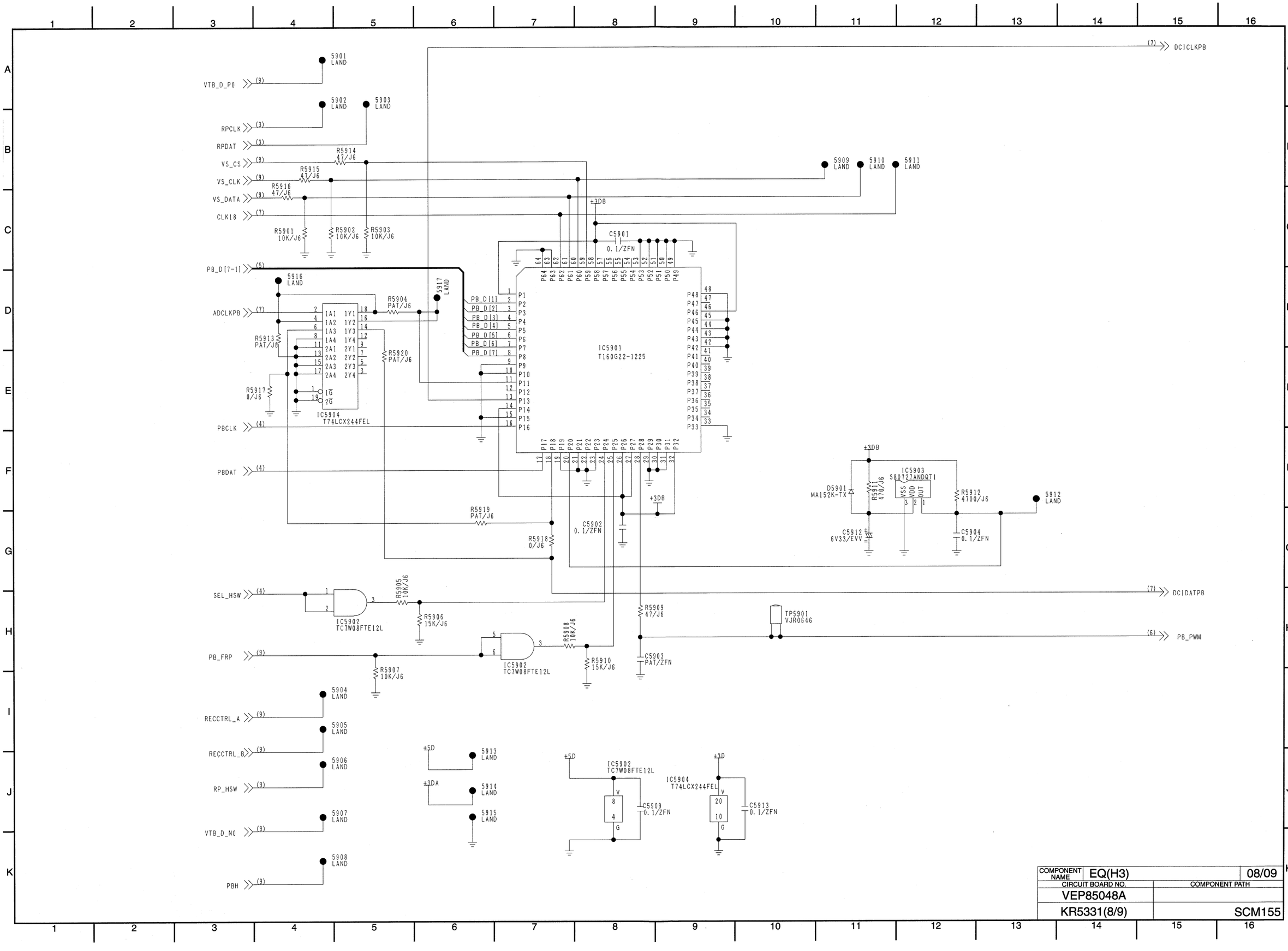
COMPONENT NAME	EQ(H3)	05/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(5/9)		SCM152



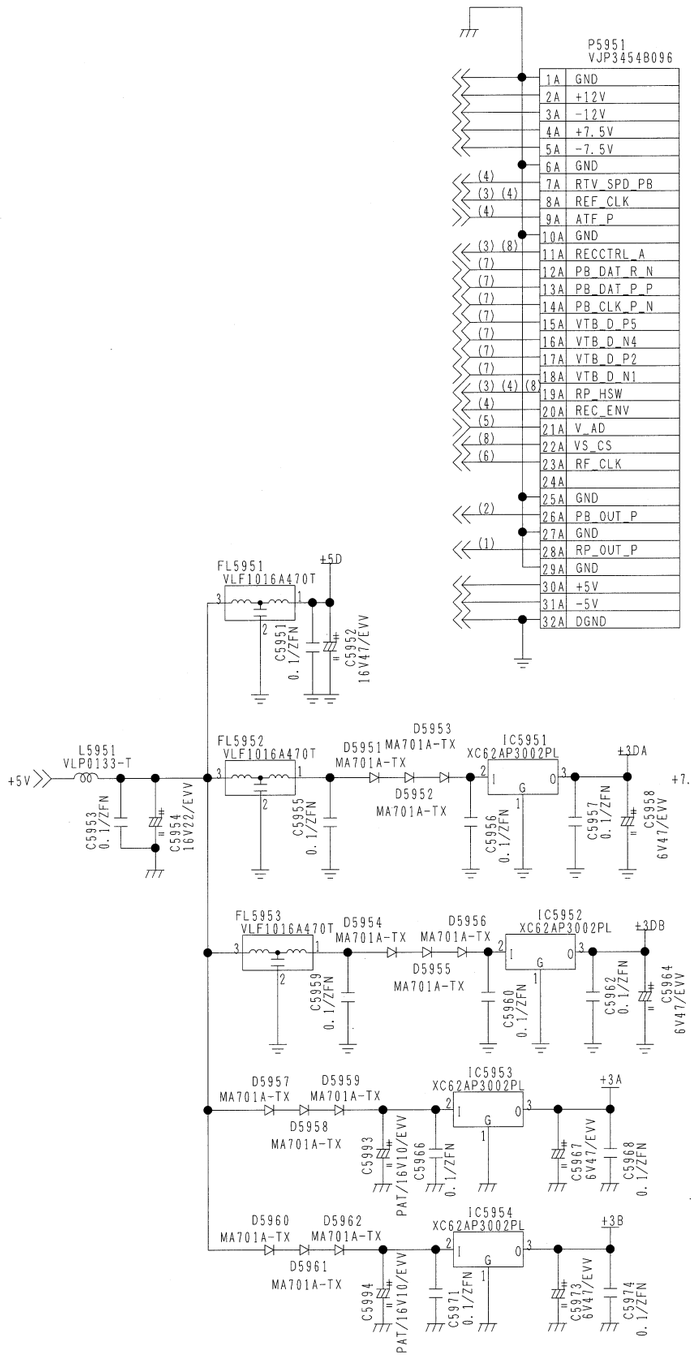
COMPONENT NAME	EQ(H3)	06/09
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85048A		
KR5331(6/9)		SCM153



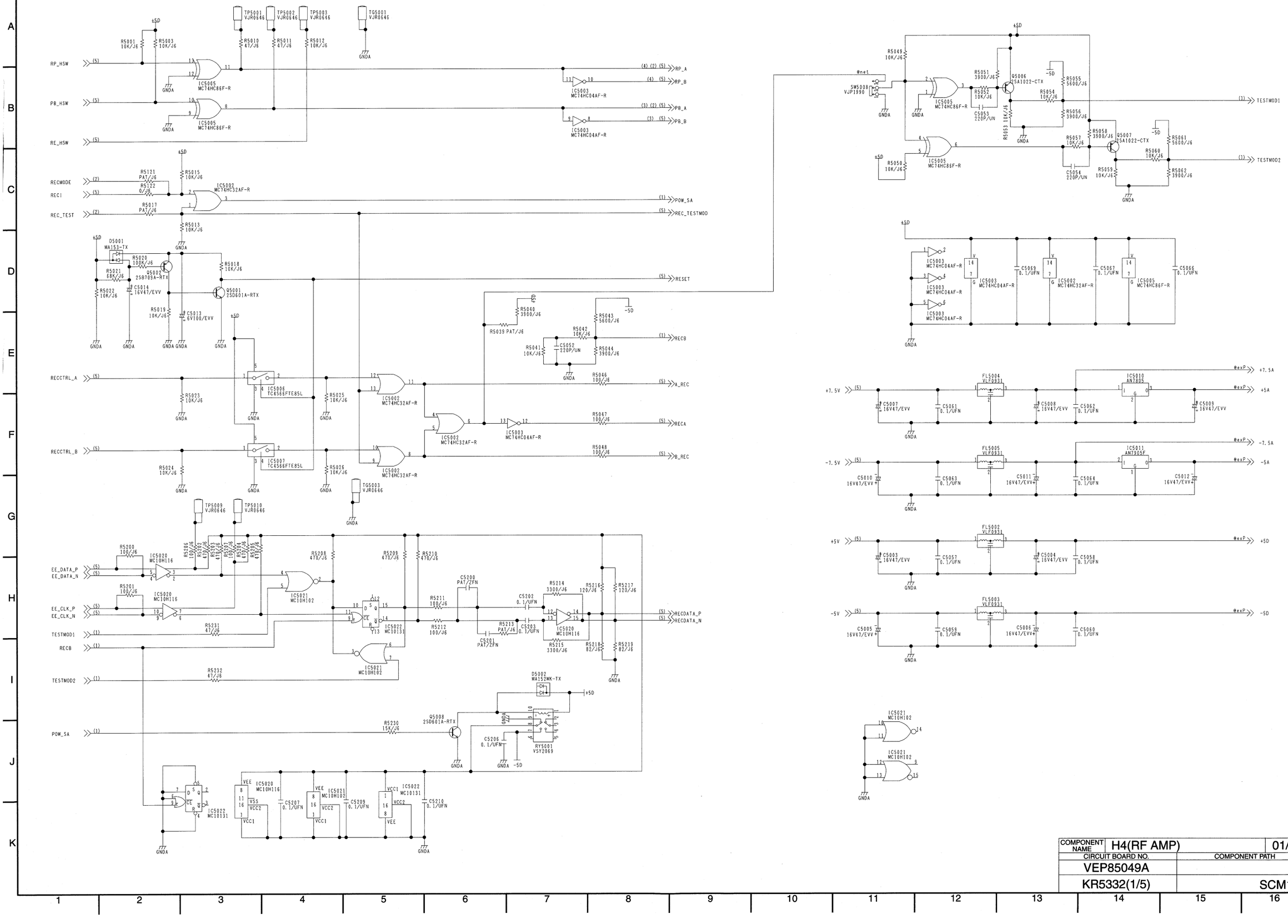
COMPONENT NAME	EQ(H3)	07/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(7/9)		SCM154



COMPONENT NAME	EQ(H3)	08/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(8/9)		SCM155

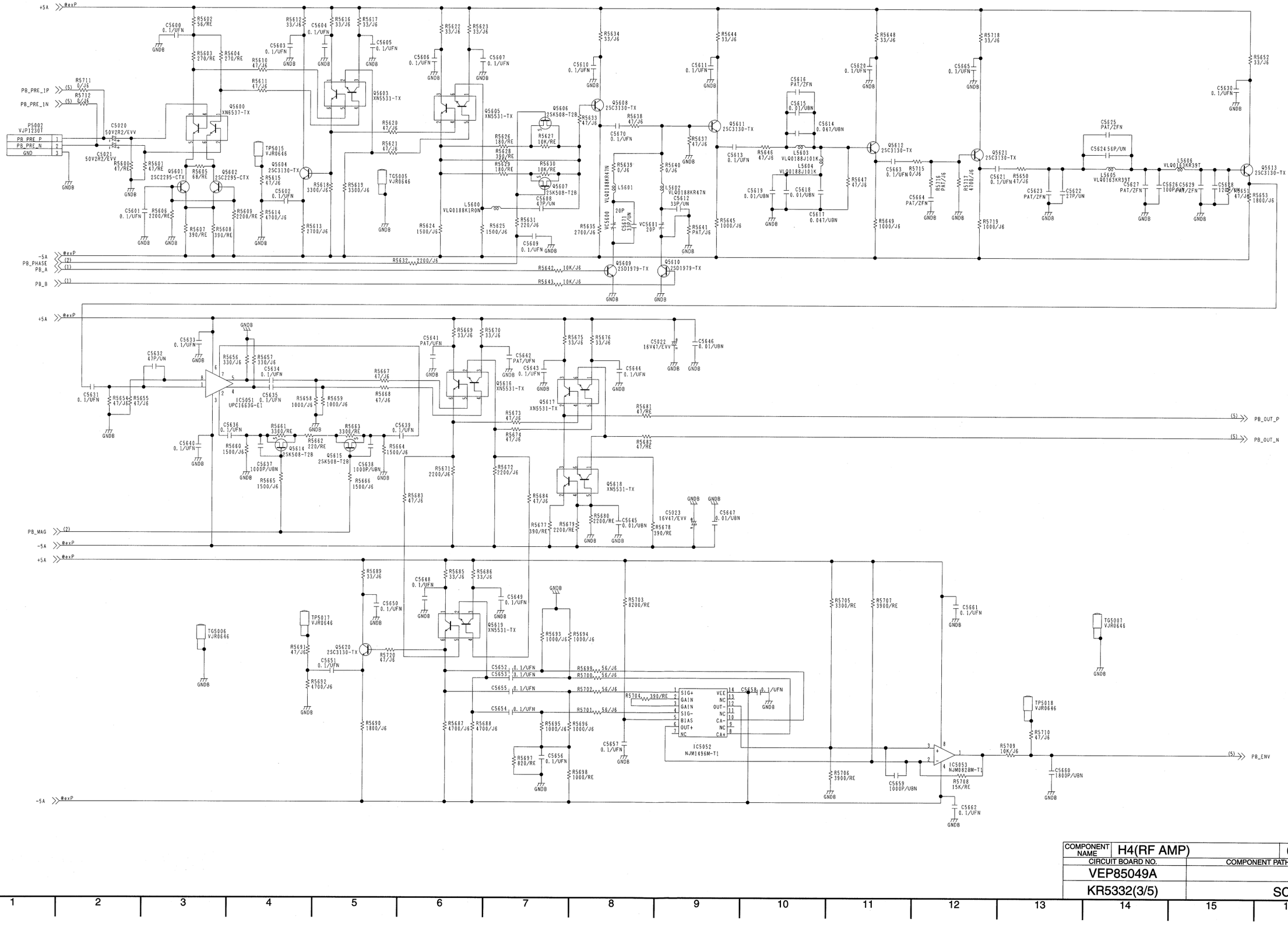


COMPONENT NAME	EQ(H3)	09/09
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85048A		
KR5331(9/9)		SCM156

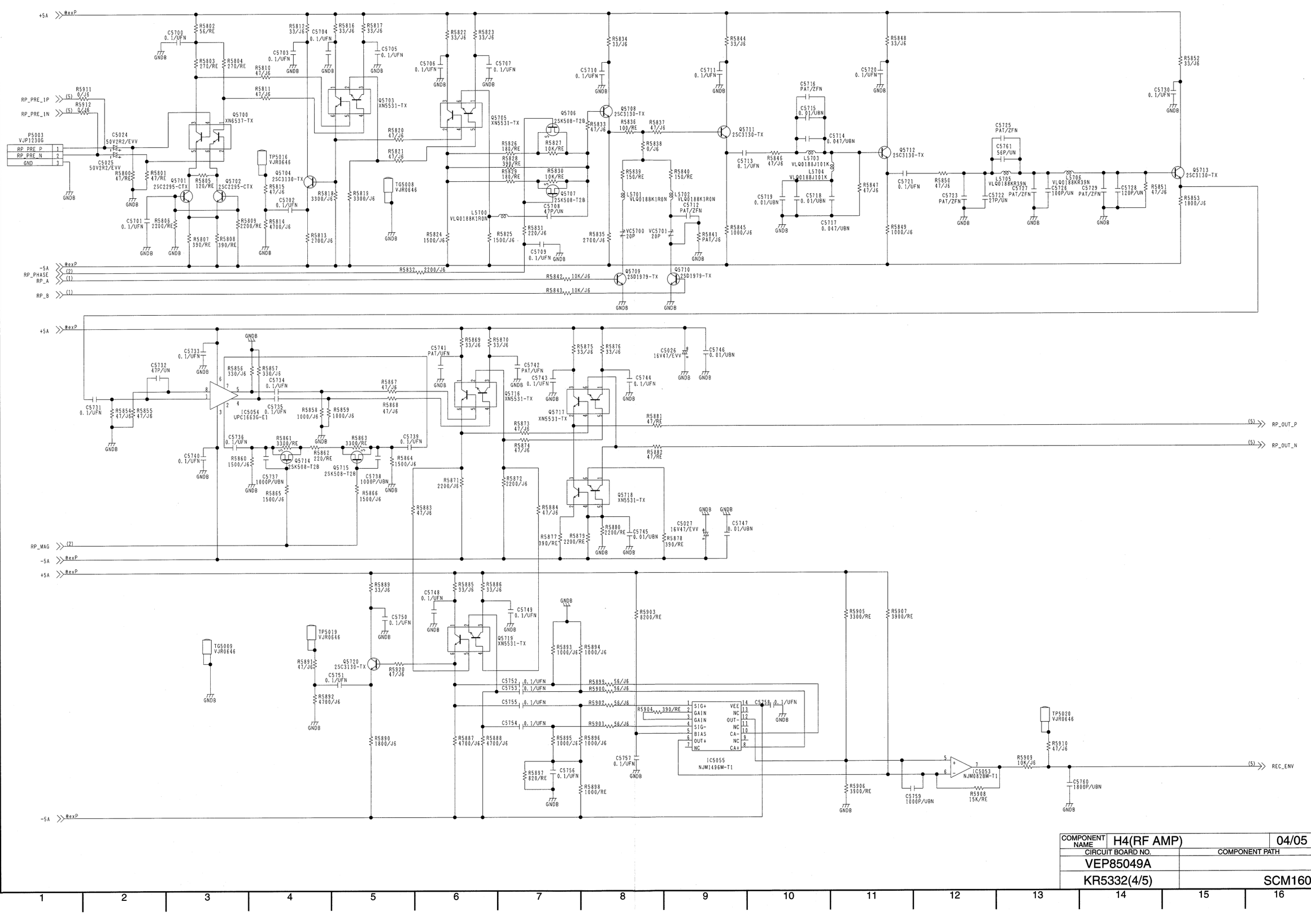


COMPONENT NAME	H4(RF AMP)	01/05
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85049A		
KR5332(1/5)		SCM157

COMPONENT NAME	H4(RF AMP)	02/05
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85049A		
KR5332(2/5)		SCM158



COMPONENT NAME	H4(RF AMP)	03/05
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85049A		
KR5332(3/5)		SCM159



COMPONENT NAME	H4(RF AMP)	04/05
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85049A		
KR5332(4/5)		SCM160

P5001
VJP3454B096

(1, 2)	1A	GND (GNDA)
(1)	2A	+12V
(1)	3A	−12V
(1)	4A	+7.5V
(1)	5A	−7.5V
	6A	GND (GNDA)
	7A	
(1)	8A	EE_DATA_P
(1)	9A	EE_CLK_P
	10A	FECTRL0
(1)	11A	RECCTRL_A
(1)	12A	A_REC
	13A	GND (GNDA)
	14A	GND (GNDA)
	15A	GND (GNDA)
	16A	GND (GNDA)
	17A	
	18A	
(1)	19A	RP_HSW
(4)	20A	REC_ENV
	21A	GND (GNDB)
	22A	GND (GNDB)
(2)	23A	RF_CLK
(2)	24A	RF_HALD_H
	25A	GND (GNDB)
(3)	26A	PB_OUT_P
	27A	GND (GNDB)
(4)	28A	RP_OUT_P
	29A	GND (GNDB)
(1)	30A	+5V
(1)	31A	−5V
(3, 4)	32A	GND (GNDB)

P5001
VJP3454B096

	1B	GND (GNDA)
(1)	2B	+12V
(1)	3B	−12V
(1)	4B	+7.5V
(1)	5B	−7.5V
	6B	GND (GNDA)
(2)	7B	RE_A_CURR
(1)	8B	EE_DATA_N
(1)	9B	EE_CLK_N
	10B	FECTRL1
(1)	11B	RECCTRL_B
(1)	12B	B_REC
(1)	13B	RESET
(1)	14B	RECDATA_P
(2)	15B	REC_A_CURR
(2)	16B	REC_A_FREQ
(1)	17B	RP_A
(1)	18B	PB_A
(1)	19B	PB_HSW
(3)	20B	PB_ENV
	21B	GND (GNDB)
	22B	GND (GNDB)
(2)	23B	RF_DAT
	24B	GND (GNDB)
(3)	25B	PB_PRE_P
	26B	PB_OUT_N
(4)	27B	RP_PRE_P
	28B	RP_OUT_N
(1)	29B	GND (GNDB)
(1)	30B	+5V
	31B	−5V
	32B	GND (GNDB)

P5001
VJP3454B096

	1C	GND (GNDA)
(1)	2C	+12V
(1)	3C	−12V
(1)	4C	+7.5V
(1)	5C	−7.5V
	6C	GND (GNDA)
(2)	7C	RE_B_CURR
	8C	GND (GNDA)
	9C	GND (GNDA)
(1)	10C	RECI
	11C	
(1) GNDA	12C	RECA
(1)	13C	REC_TESTMOD
(1)	14C	RECDATA_N
(2)	15C	REC_B_CURR
(2)	16C	REC_B_FREQ
(1)	17C	RP_B
(1)	18C	PB_B
(1)	19C	RE_HSW
	20C	PBH
	21C	GND (GNDB)
	22C	GND (GNDB)
	23C	GND (GNDB)
	24C	GND (GNDB)
	25C	PB_PRE_N
	26C	GND (GNDB)
	27C	RP_PRE_N
	28C	GND (GNDB)
	29C	GND (GNDB)
(1)	30C	+5V
(1)	31C	−5V
	32C	GND (GNDB)

GNDB

GNDA GNDB

P5004
VJP1230T

RP_PRE_P	1
RP_PRE_N	2
GND (GNDB)	3

GNDB

RP_PRE_1P (4) R5913 0/J6
RP_PRE_1N (4) R5914 0/J6

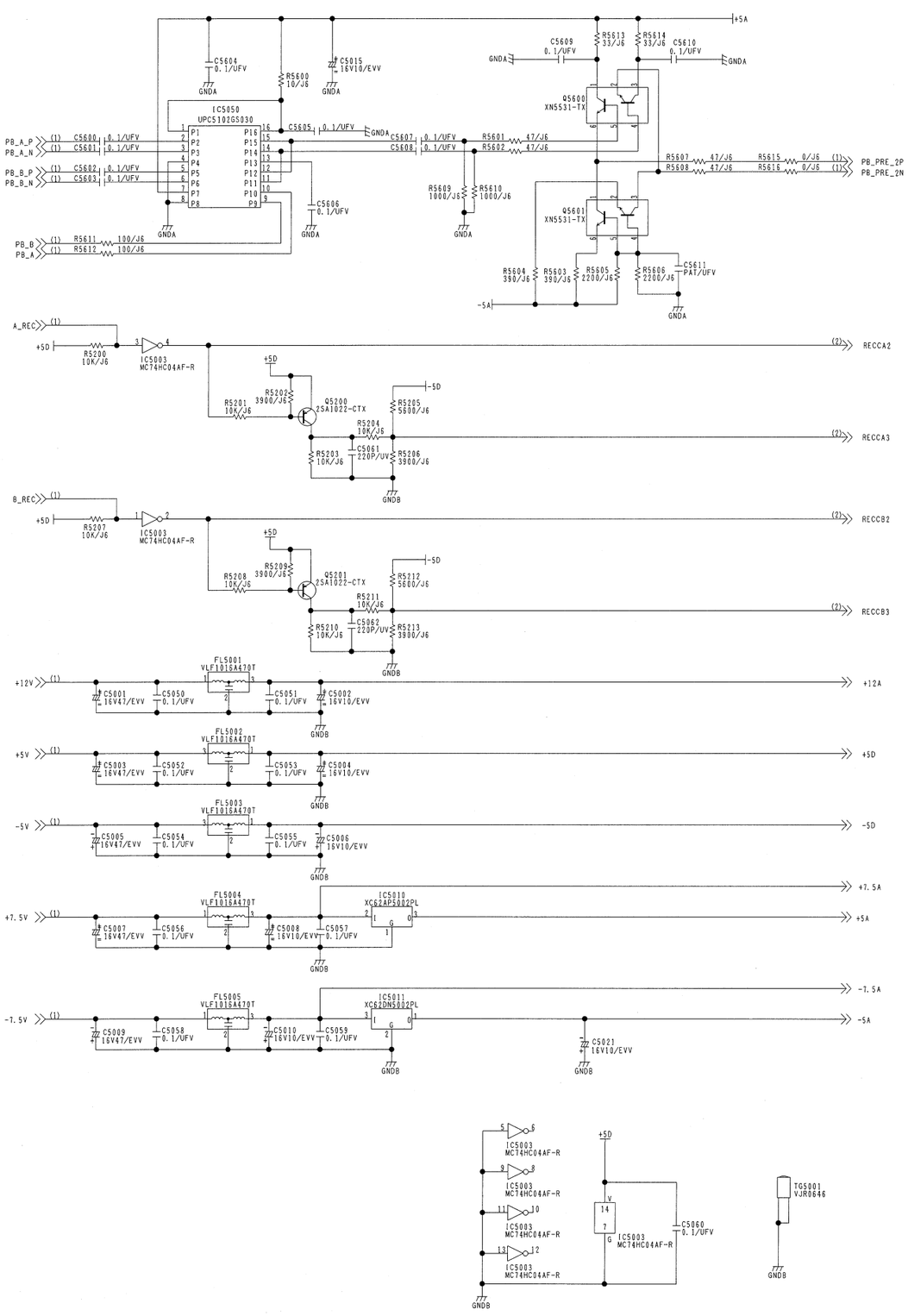
P5005
VJP1230G

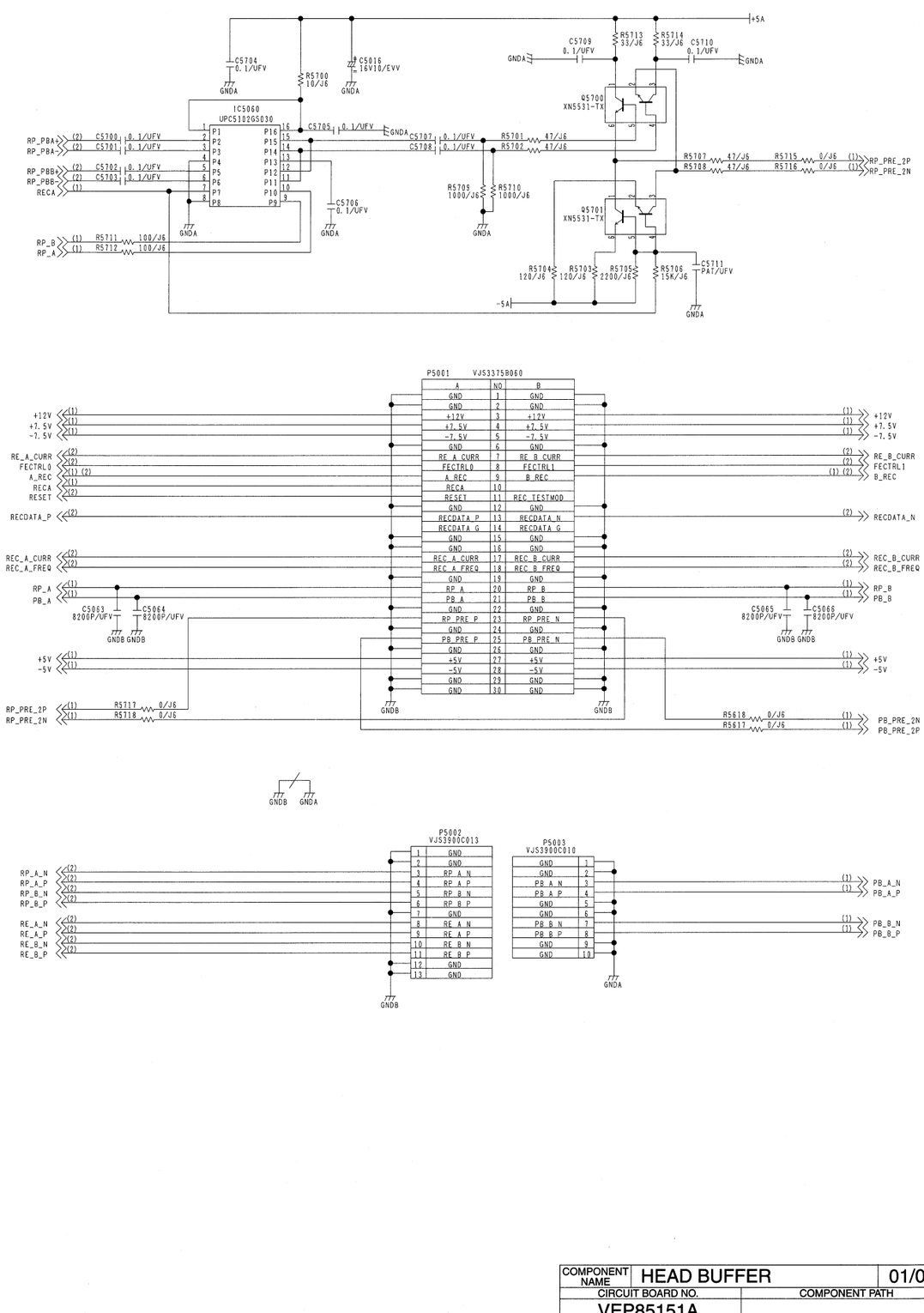
PB_PRE_P	1
PB_PRE_N	2
GND (GNDB)	3

GNDB

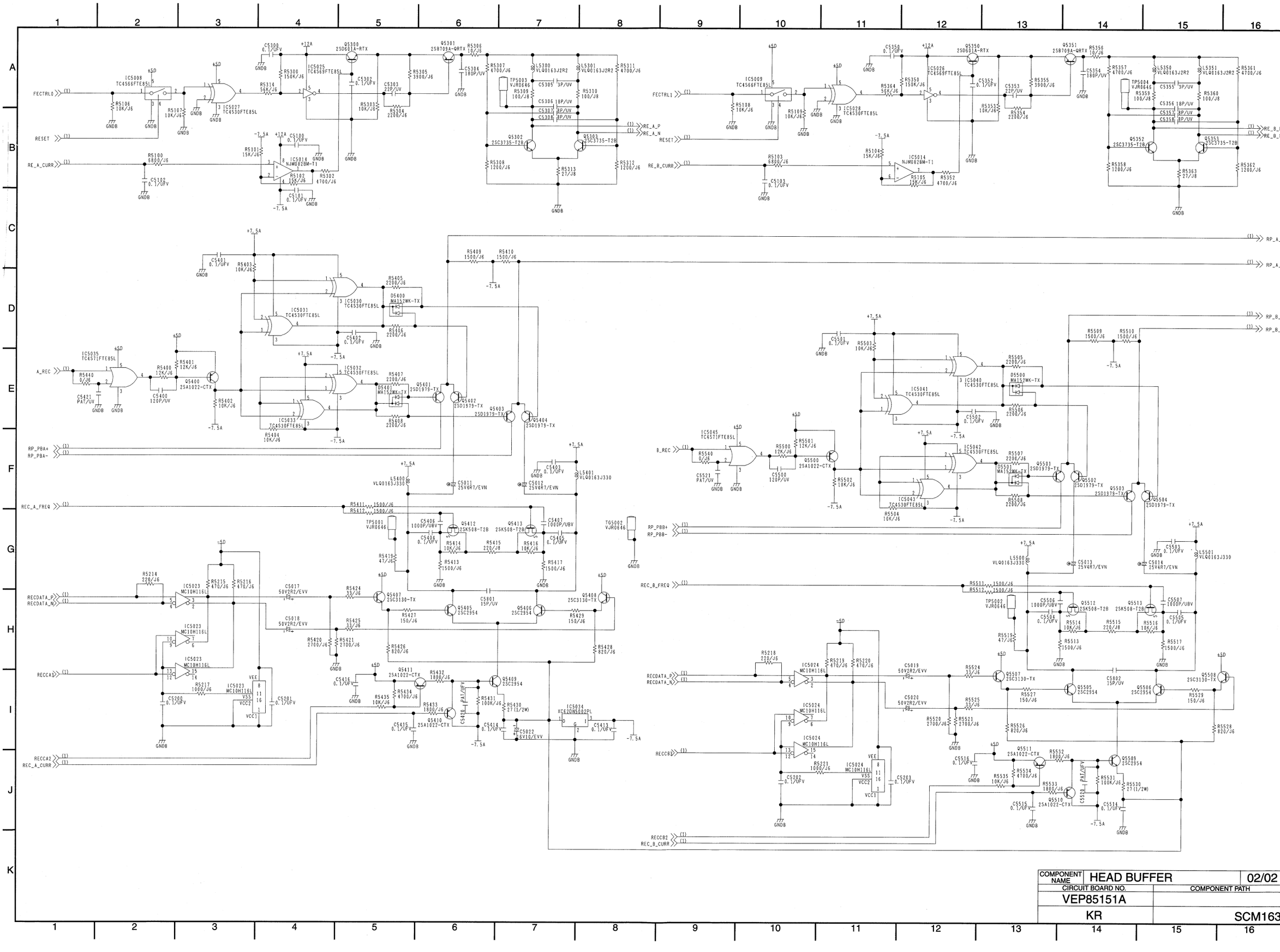
PB_PRE_1P (3) R5713 0/J6
PB_PRE_1N (3) R5714 0/J6

COMPONENT NAME	H4(RF AMP)	05/05
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85049A		
KR5332(5/5)		SCM161





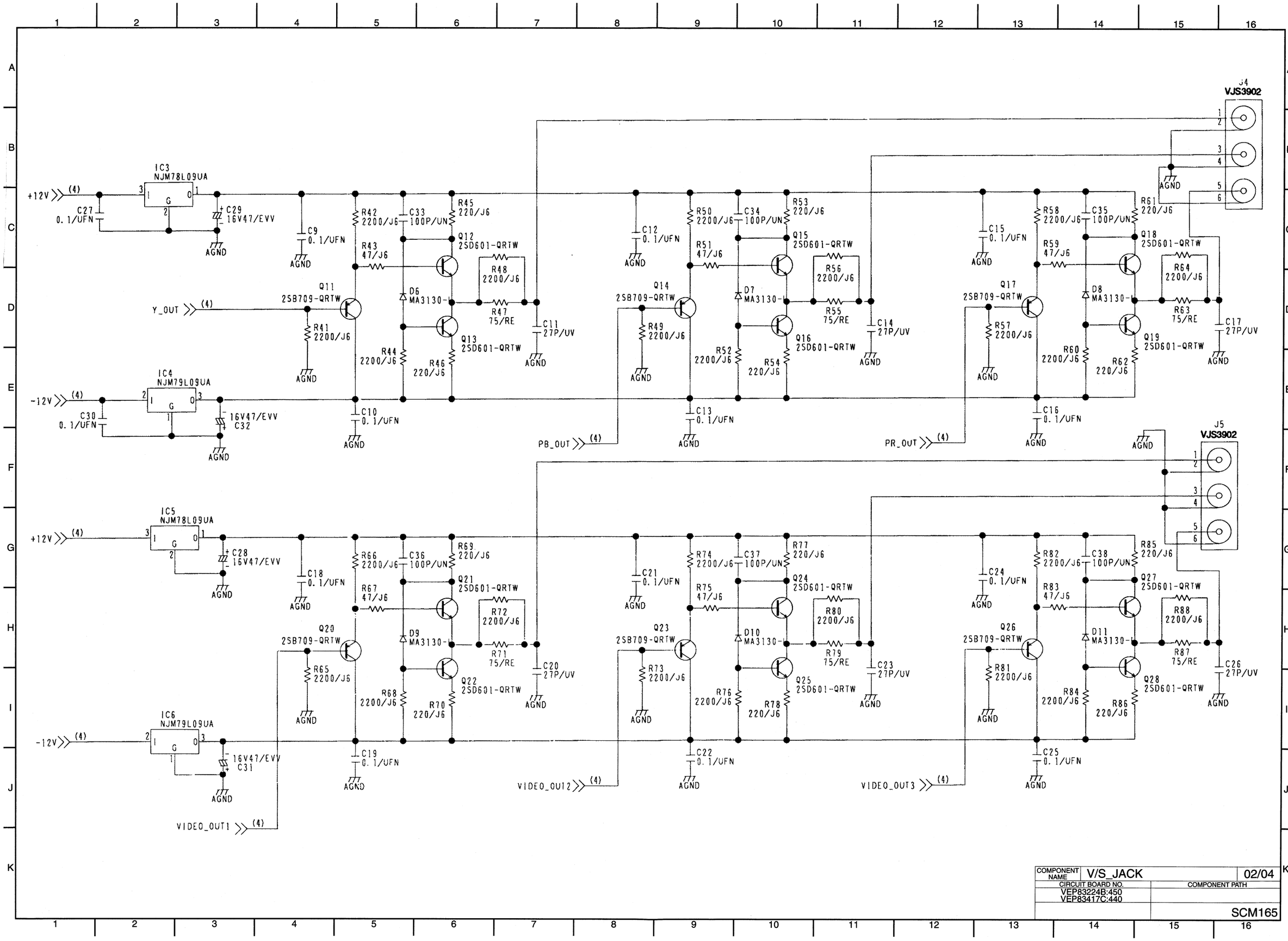
COMPONENT NAME	HEAD BUFFER	01/02
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85151A		
KR		SCM162



COMPONENT NAME	HEAD BUFFER
	02/02
CIRCUIT BOARD NO.	COMPONENT PATH
VEP85151A	
KR	SCM163

J1
VJS3902
1
2
3
4
5
6
AGND
(4) Y_IN
R4
3300/J6
R5
47/J6
R6
47/J6
Q2
2SC2295-BCTW
R2
47/J6
33/J6
R8
R1
75/RE
R3
330K/J6
2SA1022-BCTW
Q1
MA151K-TW
D1
R7
1000/J6
AGND
(4) PB_IN
R12
3300/J6
R13
47/J6
R14
47/J6
Q4
2SC2295-BCTW
R10
47/J6
33/J6
R16
R9
75/RE
R11
330K/J6
2SA1022-BCTW
Q3
MA151K-TW
D2
R15
1000/J6
AGND
(4) PR_IN
R20
3300/J6
R21
47/J6
R22
47/J6
Q6
2SC2295-BCTW
R18
47/J6
33/J6
R24
R17
75/RE
R19
330K/J6
2SA1022-BCTW
Q5
MA151K-TW
D3
R23
1000/J6
AGND
IC1
NJM78L09UA
+12V
(4)
C1
0.1/UFN
C4
16V47/EVV
AGND
C2
0.1/UFN
AGND
J2
VJS3902
(4) VIDEO_IN
R28
3300/J6
R29
47/J6
R30
47/J6
Q8
2SC2295-BCTW
R26
47/J6
33/J6
R32
R25
75/RE
R27
330K/J6
2SA1022-BCTW
Q7
MA151K-TW
D4
R31
1000/J6
SW1
VSS0307
AGND
AGND
J3
VJS3901
AGND
(4) REF_IN
R36
3300/J6
R37
47/J6
R38
47/J6
Q10
2SC2295-BCTW
R34
47/J6
33/J6
R40
R33
75/RE
R35
330K/J6
2SA1022-BCTW
Q9
MA151K-TW
D5
R39
1000/J6
SW2
VSS0307
AGND
AGND
IC2
NJM79L09UA
-12V
(4)
C5
0.1/UFN
C8
16V47/EVV
AGND
C6
0.1/UFN
AGND
FRAME_GND
C50
0.1/UFN
C51
0.1/UFN
AGND
AGND

COMPONENT NAME	V/S_JACK	01/04
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83224B:450 VEP83417C:440		
		SCM164



COMPONENT NAME	V/S_JACK	02/04
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83224B:450 VEP83417C:440		
		SCM165

P_SERIAL_IN
P_SERIAL_OUT
SERIAL_CLK
STB_CLK16
COM[0-11]
STAT[0-11]
VCC
DGND
IC207 MC14050BF-R
IC208 MC14049UBF-R
IC201 MC14021
IC202 MC14021
IC203 7451051
IC205 MC14094BF-R
IC206 MC14094BF-R
R201 6800/J6
R202 6800/J6
R203 10K/J6
R204 470K/J6
R205 10K/J6
R206 470K/J6
R207 22K/J6
R209 10K/J6
R210 10K/J6
R211 10K/J6
R212 10K/J6
R213 10K/J6
R214 10K/J6
R215 10K/J6
R216 10K/J6
R217 10K/J6
R218 10K/J6
R219 10K/J6
R220 10K/J6
R221 10K/J6
R222 10K/J6
R223 10K/J6
R224 10K/J6
R225 10K/J6
R226 10K/J6
R227 10K/J6
R228 10K/J6
R229 10K/J6
R230 10K/J6
R231 10K/J6
R232 10K/J6
R241 10K/J6
R242 470K/J6
R243 47K/J6
C203 330P/UN
C216 1000P/UN
C217 1000P/UN
C218 1000P/UN
C219 1000P/UN
C220 1000P/UN
C221 1000P/UN
C222 1000P/UN
C223 1000P/UN
C224 1000P/UN
C225 1000P/UN
C226 1000P/UN
C227 1000P/UN
C251 0.1/UFN
C252 0.1/UFN
C253 0.1/UFN
C254 0.1/UFN
C255 0.1/UFN
C256 0.1/UFN
C257 0.1/UFN
C204 1000P/UN
C205 1000P/UN
C206 1000P/UN
C207 1000P/UN
C208 1000P/UN
C209 1000P/UN
C210 1000P/UN
C211 1000P/UN
C212 1000P/UN
C213 1000P/UN
C214 1000P/UN
C215 1000P/UN
C242 16V10/EVV
D201 MA151K-TW
D202 MA151K-TW
Q201 UN2214-TW
Q202 UN2214-TW
Q203 UN2214-TW
Q204 UN2214-TW
Q205 UN2214-TW
Q206 UN2214-TW
Q207 UN2214-TW
Q208 UN2214-TW
Q209 UN2214-TW
Q210 UN2214-TW
Q211 UN2214-TW
Q212 UN2214-TW

COMPONENT NAME	V/S_JACK	03/04
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83224B:450 VEP83417C:440		
		SCM166

TO V/S_JACK

P1 VJP3375A060

	NO		
CTS	1	2	RTS
RXD	3	4	TXD
DSR	5	6	DTR
STB_CLK16	7	8	DCD
P_SERIAL_OUT	9	10	SERIAL_CLK
RET_GND	11	12	P_SERIAL_IN
SYS_SC_CORSE_1	13	14	SYS_SC_CORSE_2
SYS_H_PHASE	15	16	SYS_SC_PHASE
C_GAIN	17	18	HUE
VIDEO_GAIN	19	20	SET_UP
+5V	21	22	DGND
TRANSMIT_A_OUT	23	24	TRANSMIT_B_OUT
RECEIVE_A_OUT	25	26	RECEIVE_B_OUT
TRANSMIT_A_IN	27	28	TRANSMIT_B_IN
RECEIVE_A_IN	29	30	RECEIVE_B_IN
+5V	31	32	DGND
-12V	33	34	-12V
+12V	35	36	+12V
PR_OUT	37	38	AGND (PR_OUT_G)
PB_OUT	39	40	AGND (PB_OUT_G)
Y_OUT	41	42	AGND (Y_OUT_G)
VIDEO_OUT3	43	44	AGND (VIDEO_OUT3_G)
VIDEO_OUT2	45	46	AGND (VIDEO_OUT2_G)
VIDEO_OUT1	47	48	AGND (VIDEO_OUT1_G)
AGND	49	50	AGND
REF_IN	51	52	AGND (REF_IN_G)
PR_IN	53	54	AGND (PR_IN_G)
PB_IN	55	56	AGND (PB_IN_G)
Y_IN	57	58	AGND (Y_IN_G)
VIDEO_IN	59	60	AGND (VIDEO_IN_G)

VCC
VLQEL05101J
L1
C250
0.1/UFN
DGND
AGND
DGND
AGND

REMOTE IN/OUT

J14
VJP3414A009

1	DGND
2	TRANSMIT_A_IN
3	RECEIVE_B_IN
4	DGND
5	
6	DGND
7	TRANSMIT_B_IN
8	RECEIVE_A_IN
9	DGND

REMOTE OUT

J15
VJP3414A009

1	DGND
2	RECEIVE_A_OUT
3	TRANSMIT_B_OUT
4	DGND
5	
6	DGND
7	RECEIVE_B_OUT
8	TRANSMIT_A_OUT
9	DGND

ENCODER REMOTE

J16
VJP3414A016

1	
2	SET_UP
3	C_GAIN
4	DGND
5	+9V_RMT
6	SYS_H_PHASE
7	SYS_SC_CORSE_2
8	-9V_RMT
9	HUE
10	VIDEO_GAIN
11	RET_GND
12	
13	
14	SYS_SC_PHASE
15	SYS_SC_CORSE_1

+12V
IC209
NJM78L09UAT2
C251
16V10/EKA
DGND
DGND
-12V
IC210
NJM79L09UAT2
C252
16V10/EKA
DGND
DGND

RS-232C

J17
VJP3414A025

1	DGND
2	TXD
3	RXD
4	RTS
5	CTS
6	DSR
7	DGND
8	DCD
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	DTR
21	
22	
23	
24	
25	

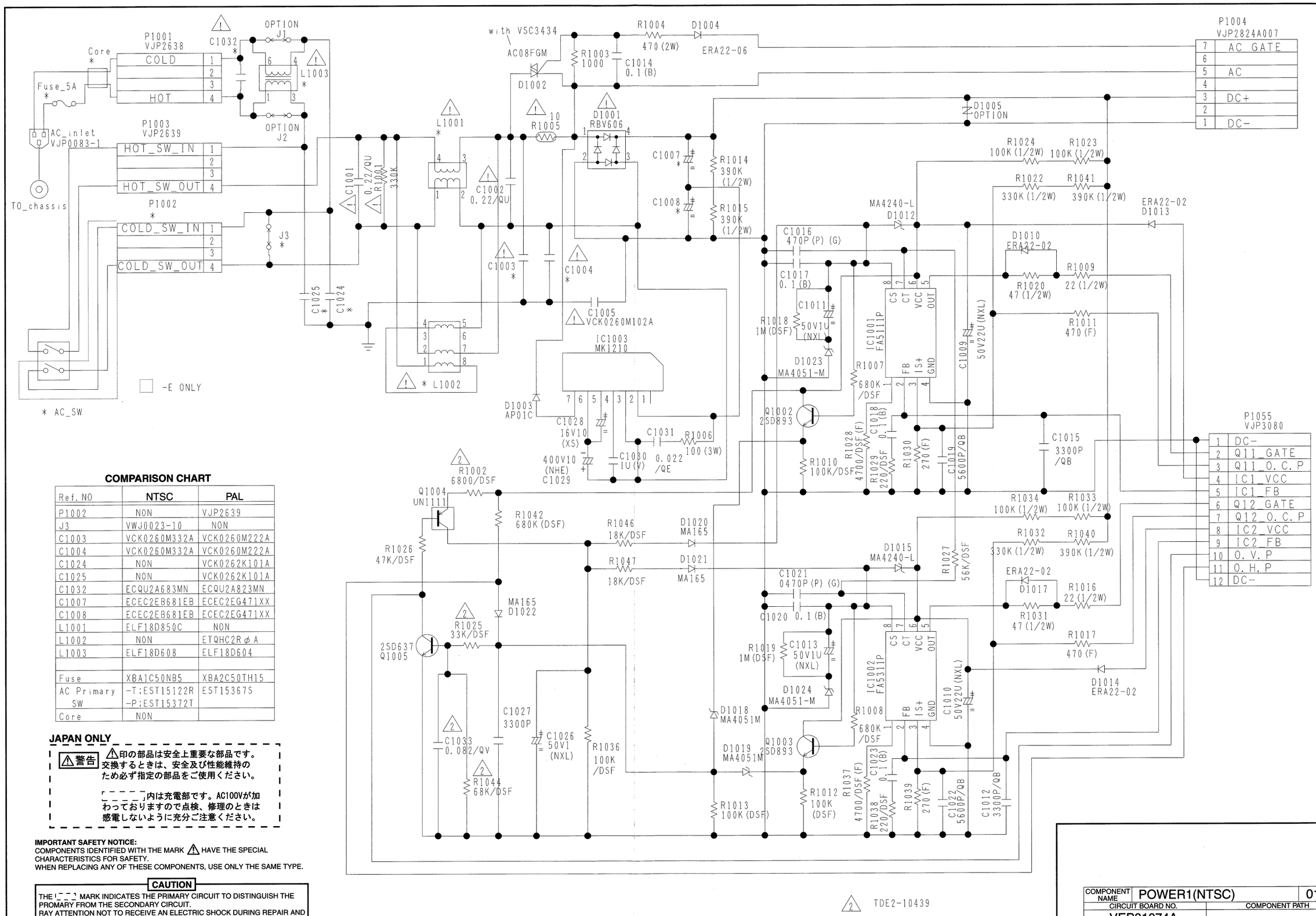
PARALLEL

J18
VJP3414A025

1	COM[0]
2	COM[1]
3	COM[2]
4	COM[3]
5	COM[4]
6	COM[5]
7	COM[6]
8	COM[7]
9	COM[8]
10	COM[9]
11	COM[10]
12	+12V_FOR_P
13	STAT[0]
14	STAT[1]
15	STAT[2]
16	STAT[3]
17	STAT[4]
18	STAT[5]
19	STAT[6]
20	STAT[7]
21	STAT[8]
22	STAT[9]
23	STAT[10]
24	SPARE
25	DGND

COM[0-11] (3)
COM[11]
R250
PAT/J6
R252 0/J6
R253 0/J6
STAT[0-11] (3)
STAT[11]
R251
0/J6
R254 0/J6
R255 0/J6
+12V
@exP
C243
16V47/EVV
C244
0.1/UFN
DGNDDGND
ERQ12HJ2R7
R244

COMPONENT NAME	V/S_JACK		04/04
CIRCUIT BOARD NO.		COMPONENT PATH	
VEP83224B:450 VEP83417C:440			
			SCM167



COMPARISON CHART

Ref. NO	NTSC	PAL
P1002	NON	VJP2639
J3	VWJ0023-10	NON
C1003	VCK0260M332A	VCK0260M222A
C1004	VCK0260M332A	VCK0260M222A
C1024	NON	VCK0262K101A
C1025	NON	VCK0262K101A
C1032	ECQU2A683MN	ECQU2A823MN
C1007	ECEC2EB681EB	ECEC2EG471XX
C1008	ECEC2EB681EB	ECEC2EG471XX
L1001	ELF18D850C	NON
L1002	NON	ETQHC2RϕA
L1003	ELF18D608	ELF18D604
Fuse	XBA1C50NB5	XBA2C50TH15
AC Primary SW	-T;EST15122R -P;EST15372T	EST15367S
Core	NON	

JAPAN ONLY

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[ ] 内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないように充分ご注意ください。

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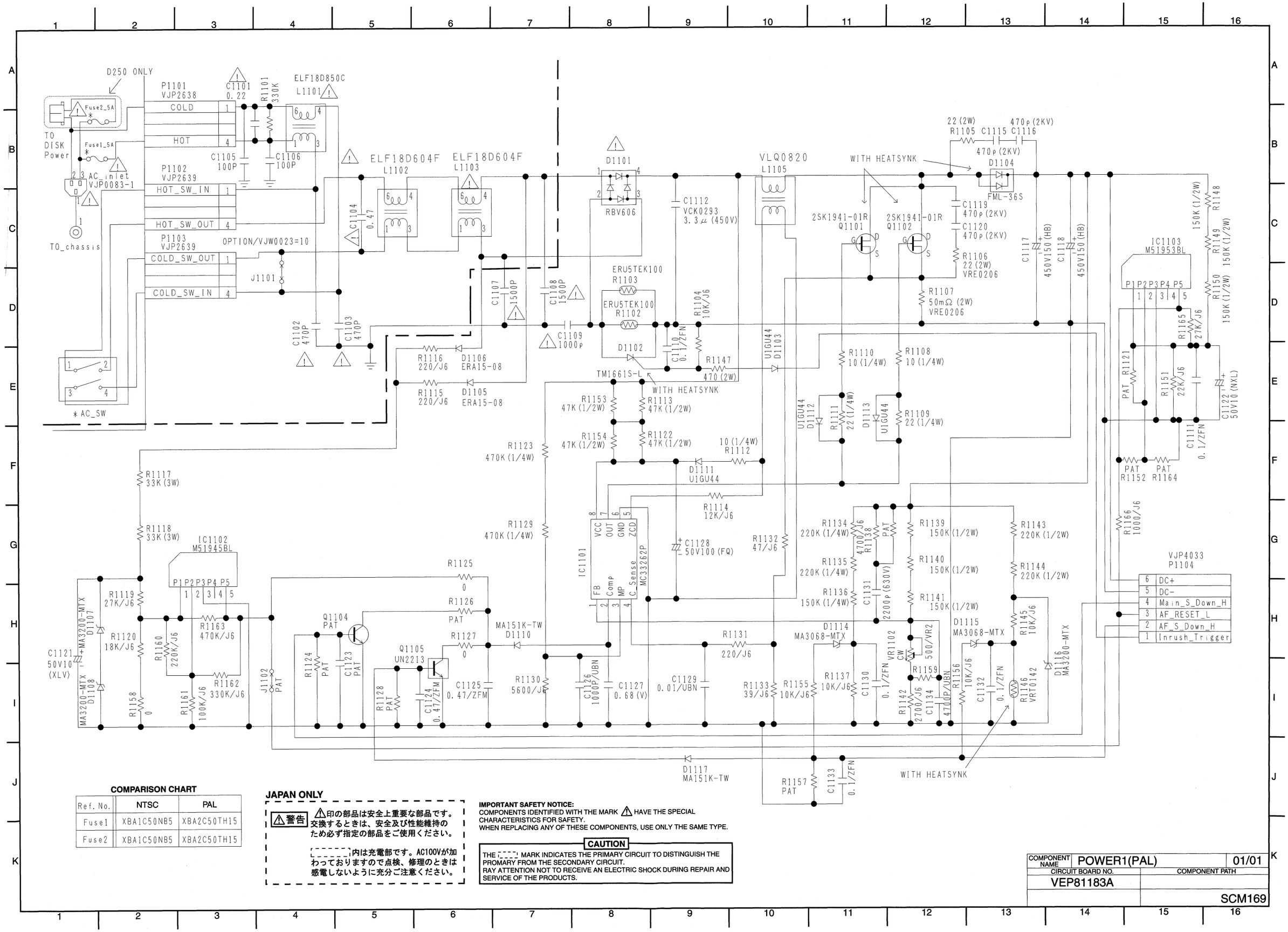
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE [ ] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PROMARY FROM THE SECONDARY CIRCUIT.
RAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	POWER1(NTSC)	01/01
CIRCUIT BOARD NO.		COMPONENT PATH
VEP81074A		
KR1A47(1/1)		SCM168



COMPARISON CHART

Ref. No.	NTSC	PAL
Fuse1	XBA1C50NB5	XBA2C50TH15
Fuse2	XBA1C50NB5	XBA2C50TH15

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[ ] 内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないように充分ご注意ください。

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WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE [ ] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PROMARY FROM THE SECONDARY CIRCUIT.
RAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	POWER1(PAL)	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP81183A		
		SCM169

⚠警告 ⚠印の部品は安全上重要な部品です。交換するときは、安全及び性能維持のため必ず指定の部品をご使用ください。

[- - - - -]内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないように充分ご注意ください。

IMPORTANT SAFETY NOTICE:
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WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION
THE [- - - -] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PROMARY FROM THE SECONDARY CIRCUIT.
RAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

P1017 VEE9624: AC_GATE 7, 6, AC 5, 4, DC+ 3, 2, DC− 1

T1001 VLT0860

R1072 39K(3W) C1067 0.047U (630V) D1047 ERA22-02 L1019 VLP0074 D1046 AP01C C1061 150P (2KV) R1073 18(2W) D1045 ERA22-06 C1062 220P (2KV) R1074 10/DSF C1063 35V47U (XLV) R1051 18K/DSF R1075 100K/DSF R1076 0.33(2W) D1048 MA4240-H Q1011 2SK1684 L1020 VLP0074 WITH HEATSYNK

OPTION C1057 OPTION C1058

Q1014 * C1080 2200P(B)

T1002 VLT0861

P1006 VEE9625: DC− 1, Q11_GATE 2, Q11_O.C.P 3, IC1_VCC 4, IC1_FB 5, Q12_GATE 6, Q12_O.C.P 7, IC2_VCC 8, IC2_FB 9, O.V.P 10, O.H.P 11, DC− 12

R1077 39K(3W) C1068 0.047U (630V) D1049 AP01C C1064 150P (2KV) L1022 VLP0074 Q1012 2SK1684 R1078 18(2W) D1044 ERA22-06 D1050 ERA22-02 L1021 VLP0074 R1079 10/DSF C1065 220P (2KV) R1080 100K/DSF D1051 MA4240-H R1081 0.33(2W) R1052 18K/DSF C1066 35V47U(XLV) WITH HEATSYNK C1081 2200P(B) Q1015 *

R1055 * WITH PRI HEATSYNK C1082 0.082/QV Q1013 *

Q1016 *

C1069 100P(500V) D1030 D30SC4M WITH HEATSYNK D1031 FML12S C1070 100P(500V) 10V8200(FA) C1076 10V8200(FA) C1077 10V8200(FA) C1078

L1012 VLQ0479 L1013 VLQ0605

C1040 10V4700L (FA) C1041 10V4700L (FA) R1053 1800(F)

R1056 330/DS C1054 0.1(B) R1057 10K/DS R1058 3600(F) 220/DS R1063 C1079 120P IC1011 UPC1093J ±5V 470(F) R1059 CW VR1001 500

R1050 47(2W) C1047 10V100U (NXL) R1054 47(2W) C1048 10V100U (NXL)

Q1018 UN1214 D1038 MA4075-M Q1017 OPTION R1061 OPTION Q1019 UN1114 D1037 MA4075-M C1055 0.1(B) R1062 OPTION C1059 0.1(B) R1071 10K/DS

WITH SECOND HEATSYNK

R1060 10K/DS C1071 100P(500V) WITH HEATSYNK D1032 RL4ZPLF C1073 100P(500V) FMBG14L D1034 D1035 31DQ04 D1036 RL2ZPLF C1075 100P(500V)

D1039 MA4240-L D1040 MA4160-L D1041 MA4130-M L1014 VLQ0354

C1072 100P(500V) D1033 FMLG12SP C1042 =35V1500L (FQ) C1043 25V4700 (FA) C1044 16V2700 (FA) C1045 16V1000U (FA) C1046 25V680U (FA)

L1015 VLQ0605 L1016 VLQ0354 L1017 VLQ0410 L1018 VLQ0410

C1050 25V100U (NXL) C1049 35V4700U (NHE) R1055 220(2W) R1064 680(2W) C1051 16V100U (NXL) C1053 16V100U (NXL) C1052 16V100U (NXL) D1042 MA4130-M D1043 MA4160-L

R1067 220/DS R1066 330/DS C1056 0.1(B) R1068 10K/DS R1069 6800(F) C1012 120P IC1004 UPC1093J 12V R1070 1600(F) CW VR1002 500

P1012 VJP2824B006: 1 5V, 2 5V, 3 −5V, 4 GND, 5 GND, 6 GND

P1014 VJP1243T: 1 12V, 2 FAN_PULSE, 3 GND

P1011 VJP2824B003: 3 FAN_PULSE, 2 GND, 1 16V

P1013 VJP2824B008: 8 −7.5V, 7 7.5V, 6 −12V, 5 12V, 4 GND, 3 GND, 2 GND, 1 GND

COMPARISON CHART

Ref. NO	NTSC	PAL
R1055	VRT0033	VRT0142
Q1013	PS2561L1-1WL	PS2561L1V1WL
Q1014	↓	↓
Q1015		
Q1016		

COMPONENT NAME	POWER2(NTSC)	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP81075A		
KR1A48(1/1)		SCM170

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P1015: DC+ 1, DC- 2, Main S Down H 3, AF RESET L 4, AF S Down H 5, Inrush Trigger 6

C1090 0.1

R1076 0.33

D1048 MA3240-HTX

R1075 100K

T1001 VLT0899

R1099 33K, C1067 1000P, R1072 33K, D1046 AP0K

D1047 U1LGU44, L1019 VLP0074-T

R1074 39

VLP0336, R1073 18, D1045 U05NU44, R1051 18K, C1063 35V47

Q1011 2SK2677, VLP0337, WITH HEATSYNK, VLP0336, C1062 220P

Q1014 PS2561L1V1WL, C1080 2200P

R1021 33K, C1068 1000P, R1077 33K, D1049 AP0K

T1002 VLT0900

D1050 U1LGU44, L1021 VLP0074-T

VLP0336, R1078 18, D1044 U05NU44, R1079 22, R1052 18K, C1066 35V47

Q1012 2SK2677, VLP0337, WITH HEATSYNK, VLP0336, C1065 220P

R1081 0.33, D1051 MA3240-HTX, R1080 100K

Q1015 PS2561L1V1WL, C1081 2200P

Q1020 PS2561L1V1WL

Q1013 PS2561L1V1WL, C1004 0,1, R1055 VRT0142

DC-, Q11 GATE, Q11 O.C.P, IC1 VCC, IC1 FB, Q12 GATE, Q12 O.C.P, IC2 VCC, IC2 FB, O.V.P, O.H.P, DC-, Main s Down H, AF RESET L, AF S DOWN H, DC+

D1052 MA151K-TW, WITH HEATSYNK (VSC4707)

IC1014 PQ30RV31, R1043 620, C1096 16V100, R1044 390, R1045 4700, C1095 0.47

C1069 100P, VLP0336, D1030 D30SC4M, C1076 10V8200, C1077 10V8200, C1078 10V8200, C1088 10V8200, L1012 VLQ0479

WITH HEATSYNK, VLP0336, D1031 FMLG12SP, D1016 FMBG14L, C1040 10V3300, L1013 VLQ0605

C1070 100P, C1041 10V3300, C1097 0.47, C1098 0.47, R1050 47, C1047 16V100, R1054 47, C1048 16V100

P1012: 1 5V, 2 5V, 3 5V, 4 -5V, 5 GND, 6 GND, 7 GN, 8 GND, 9 3V

R1063 220, Q1022 UN2113, Q1023 UN2213, R1093 10K, C1089 50V10

IC1011 UPC1093J, R1056 330, C1054 0.1, R1058 3600, R1057 10K, R1053 1800, C1079 120P, R1059 470, P5V, VR1001 500, D1011 MA151K-TW, R1060 10K

R1071 10K, R1001 120, C1028 0.1, R1061 100K, R1002 120, D1037 MA3075-MTX, Q1019 UN2111, C1059 0.1

D1038 MA3075-MTX, Q1018 UN2211, C1083 0.1, C1055 0.1, Q1017 UN2214, WITH SECOND HEATSYNK, R1062 VRT0033

D1039 MA3240-LTX, D1040 MA3160-LTX, D1041 MA3130-MTX, R1003 120, R1004 120, R1005 120

C1092 0.1

P1014: 1 12V, 2 FAN PULSE, 3 GND

P1011: 3 FAN PULSE, 2 GND, 1 16V

C1071 100P, L1022 VLP0074-T, D1032 RL4ZPLF-M1, C1042 35V470, L1014 VLQ0655K220T, C1049 35V470, R1064 680

C1072 100P, VLP0336, D1033 FMLG12SP, C1043 25V3300, L1015 VLQ0605, C1050 25V100, R1065 680, R1006 680

P1013: 8 -7.5V, 7 7.5V, 6 -12V, 5 12V, 4 GND, 3 GND, 2 GND, 1 GND

R1095 0.1, R1088 50

C1073 100P, VLP0336, D1034 FMLG12SP, C1044 16V2200, C1085 16V2200, L1016 VLQ0605, C1051 16V100

WITH HEATSYNK

D1042 MA3130-MTX, D1043 MA3160-LTX, Q1024 UN2214, R1040 120, R1041 120, R1094 10K

C1075 100P, VLP0336, D1036 FMLG12SP, C1046 25V680, L1018 VLQ0655K220T, C1053 16V100

C1074 100P, VLP0336, D1035 FMBG14L, C1045 16V2200, L1017 VLQ0354, C1052 16V100

R1067 120

IC1012 UPC1093J, R1066 330, C1056 0.1, R1069 6800, R1068 10K, C1060 120P, R1070 1600

12V, VR1002 500, R1096, C1099 0.1, C1091 0.1

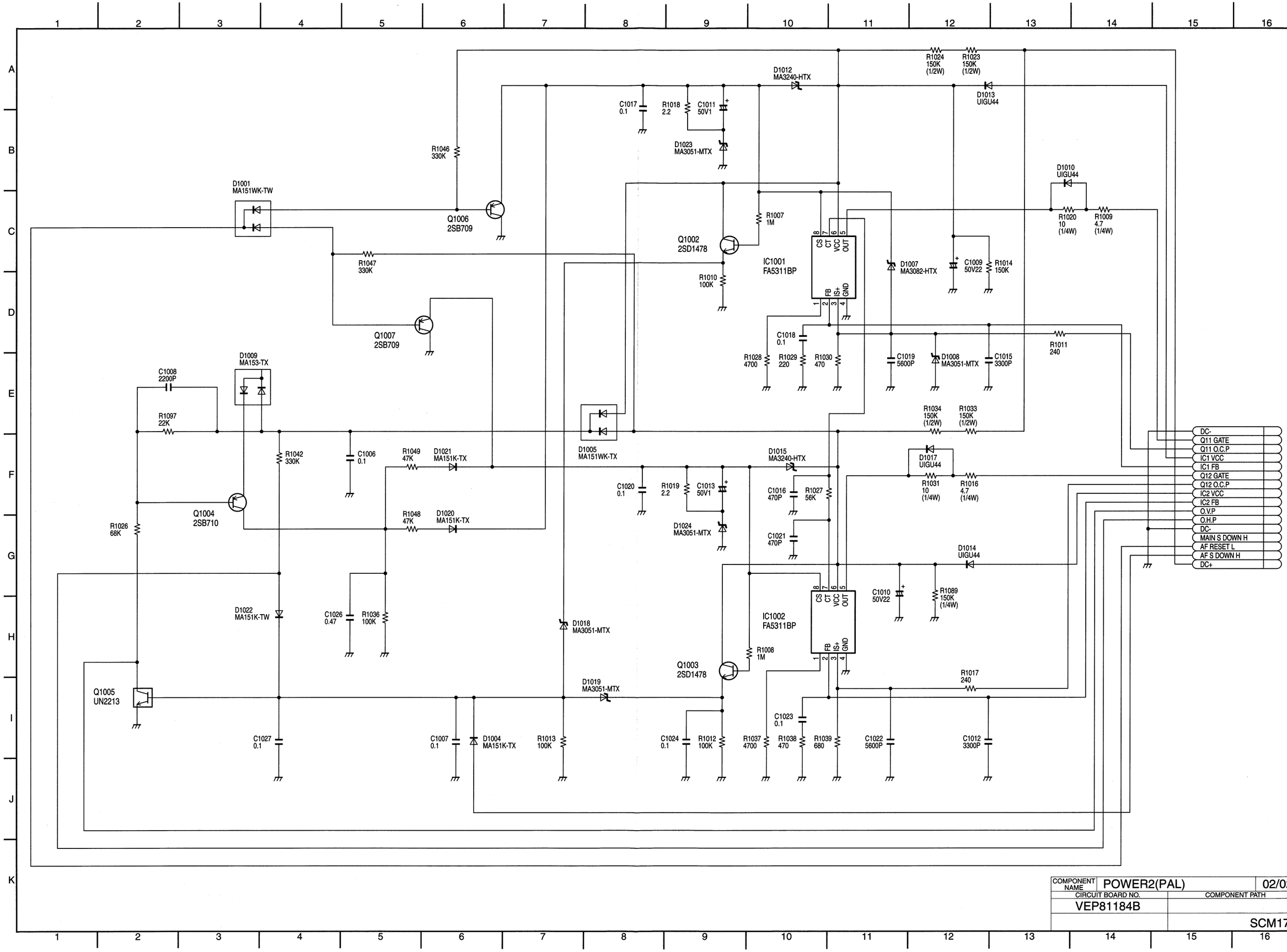
TO chassis

R1087 10K, R1098 10K

IC1013 UPC393C, R1082 10K, R1084 1300, C1086 1000P, R1085 10K, C1005 0.1, R1083 10K, R1086 10K, C1087 0.1, R1090 1200

IC1013 UPC393C, C1094 1000P, R1092 10K, R1091 10K

COMPONENT NAME	POWER2(PAL)	01/02
CIRCUIT BOARD NO.		COMPONENT PATH
VEP81184B		
		SCM171



COMPONENT NAME	POWER2(PAL)	02/02
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP81184B		
		SCM172

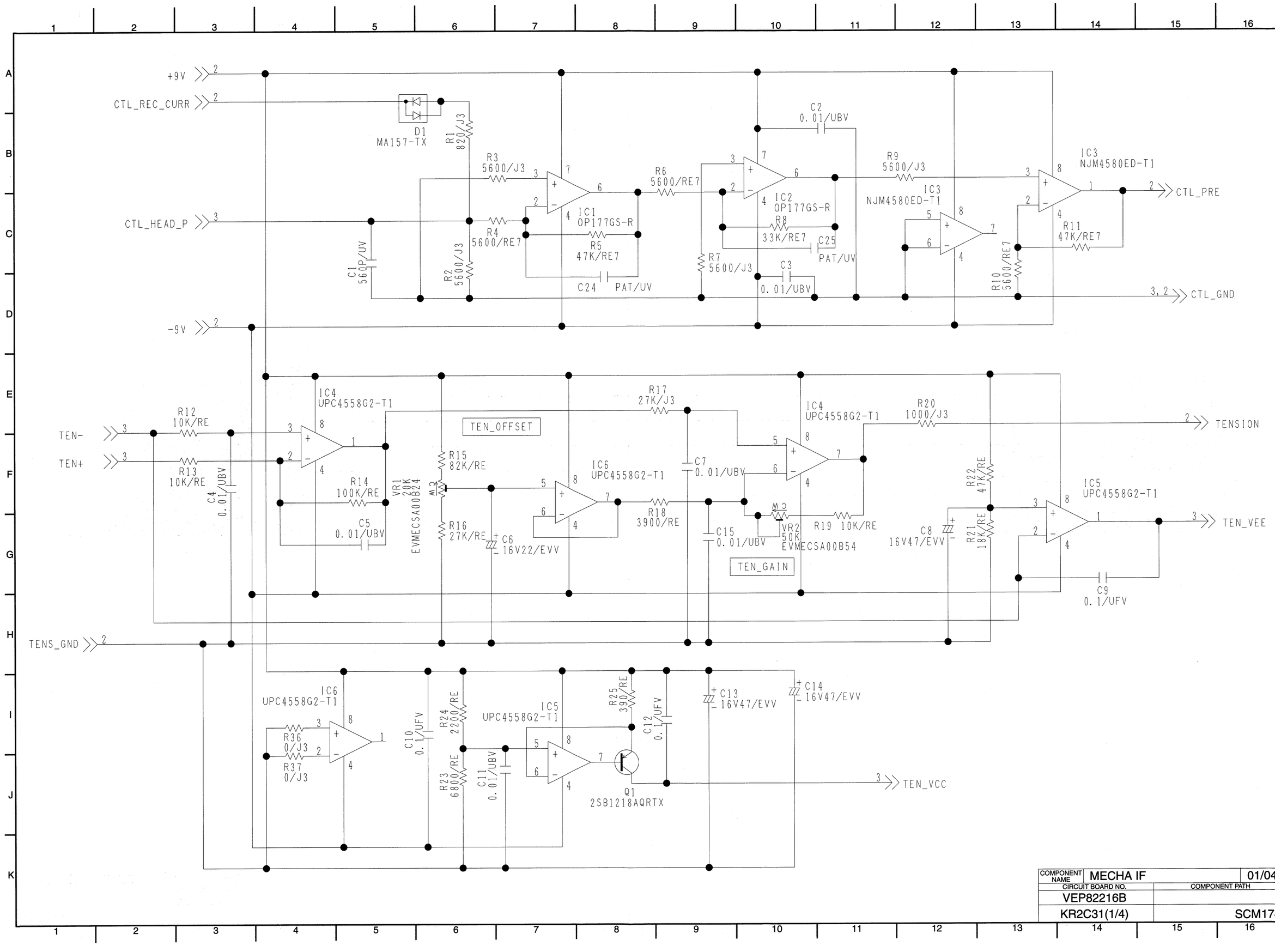
P1301

DC+	6
DC-	5
MAIN S DOWN H	4
AF RESET L	3
AF S DOWN H	2
INRUSH TRIGGER	1

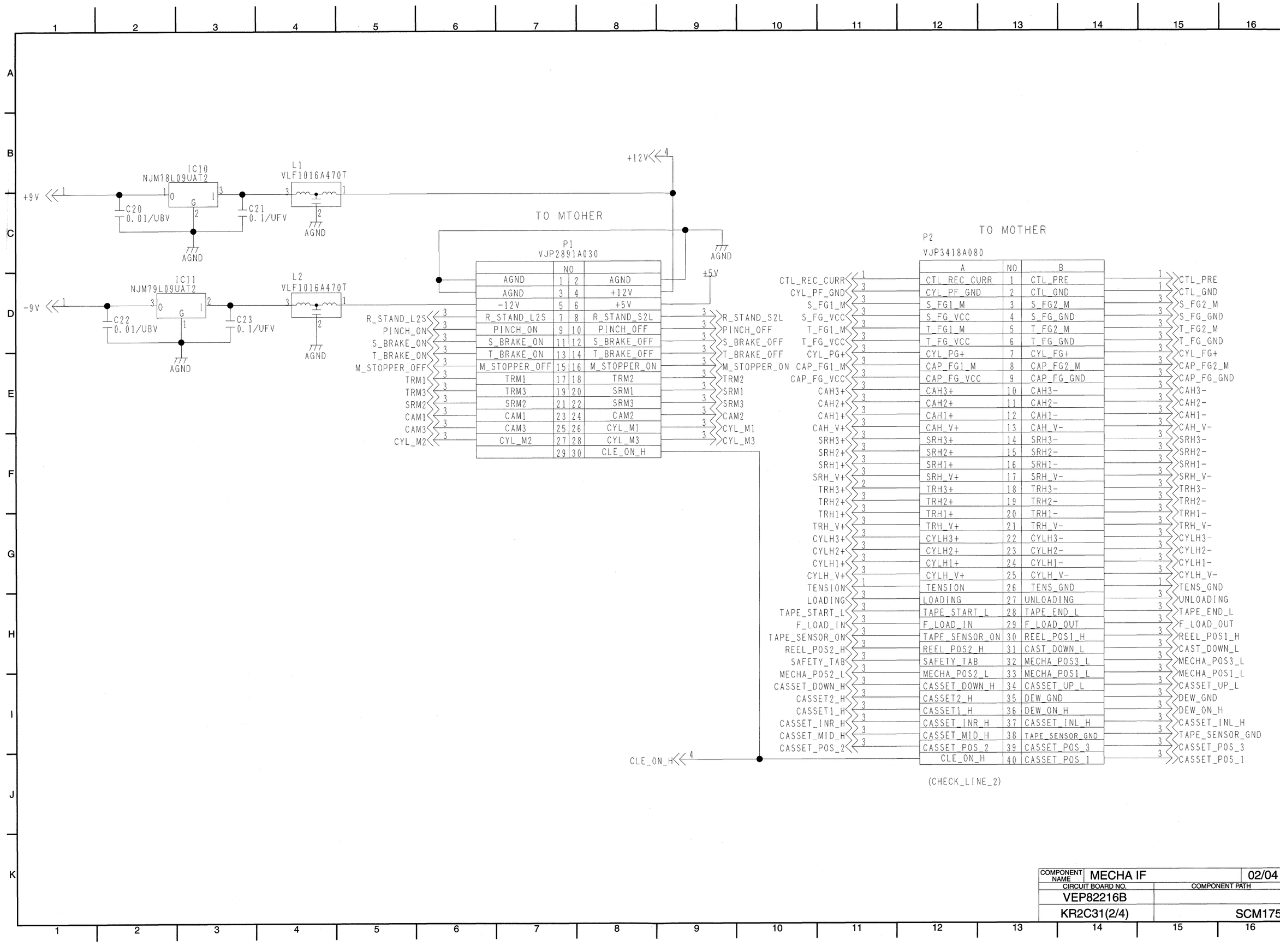
P1302

1	DC+
2	DC-
3	MAIN S DOWN H
4	AF RESET L
5	AF S DOWN H
6	INRUSH TRIGGER

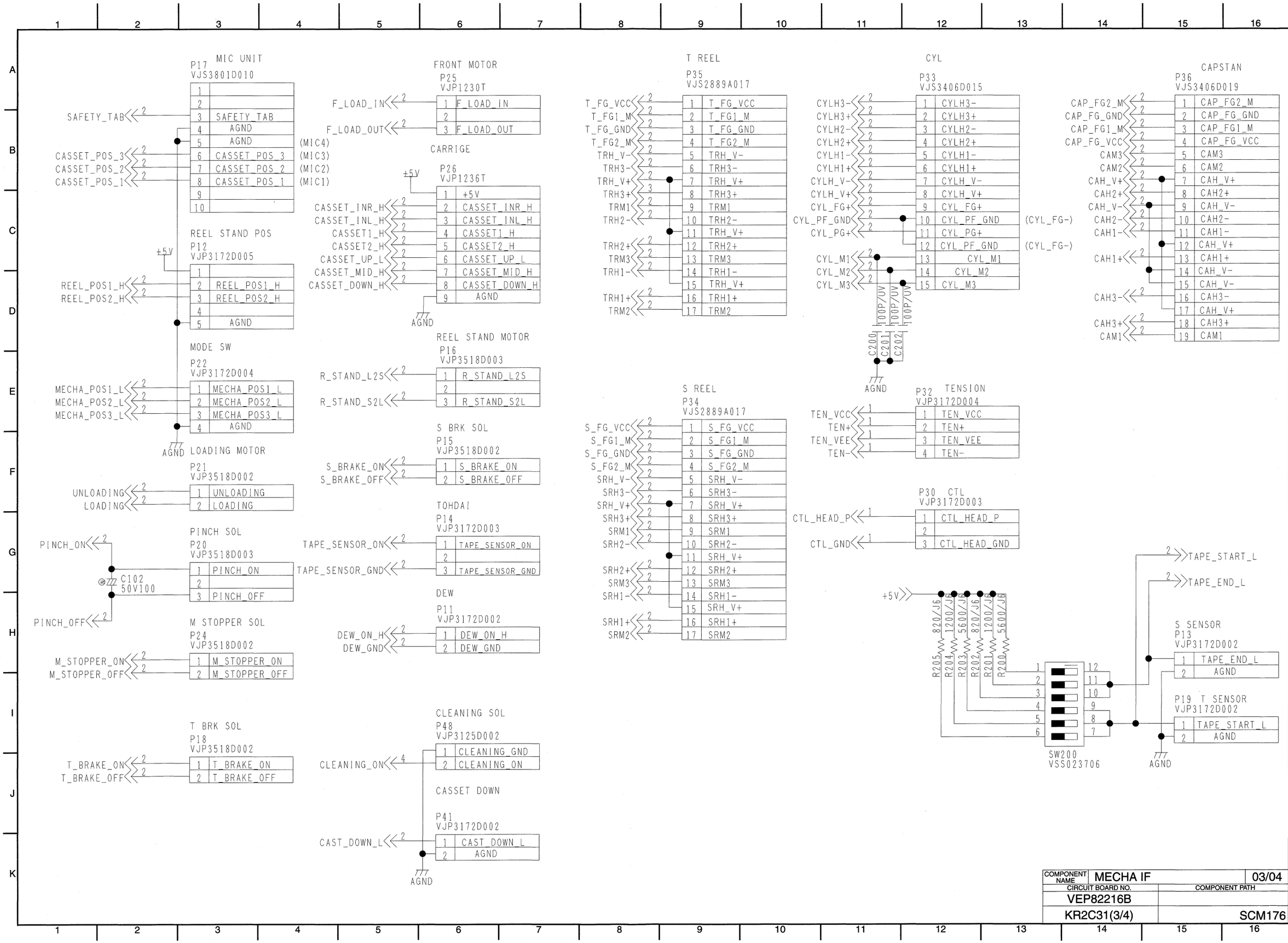
COMPONENT NAME	POWER CONNECT(PAL only)	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A58A		
		SCM173



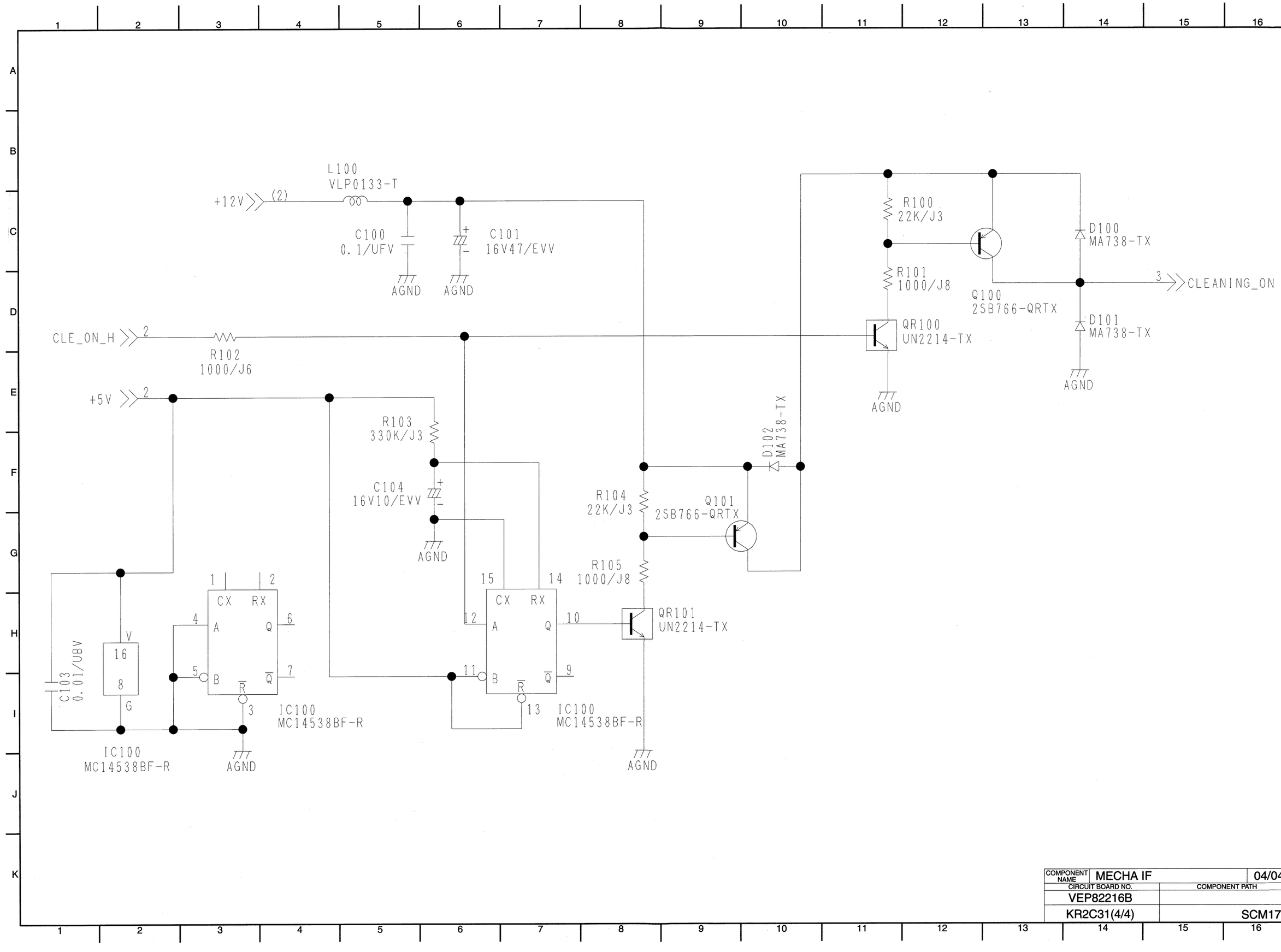
COMPONENT NAME	MECHA IF	01/04
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82216B		
KR2C31(1/4)		SCM174



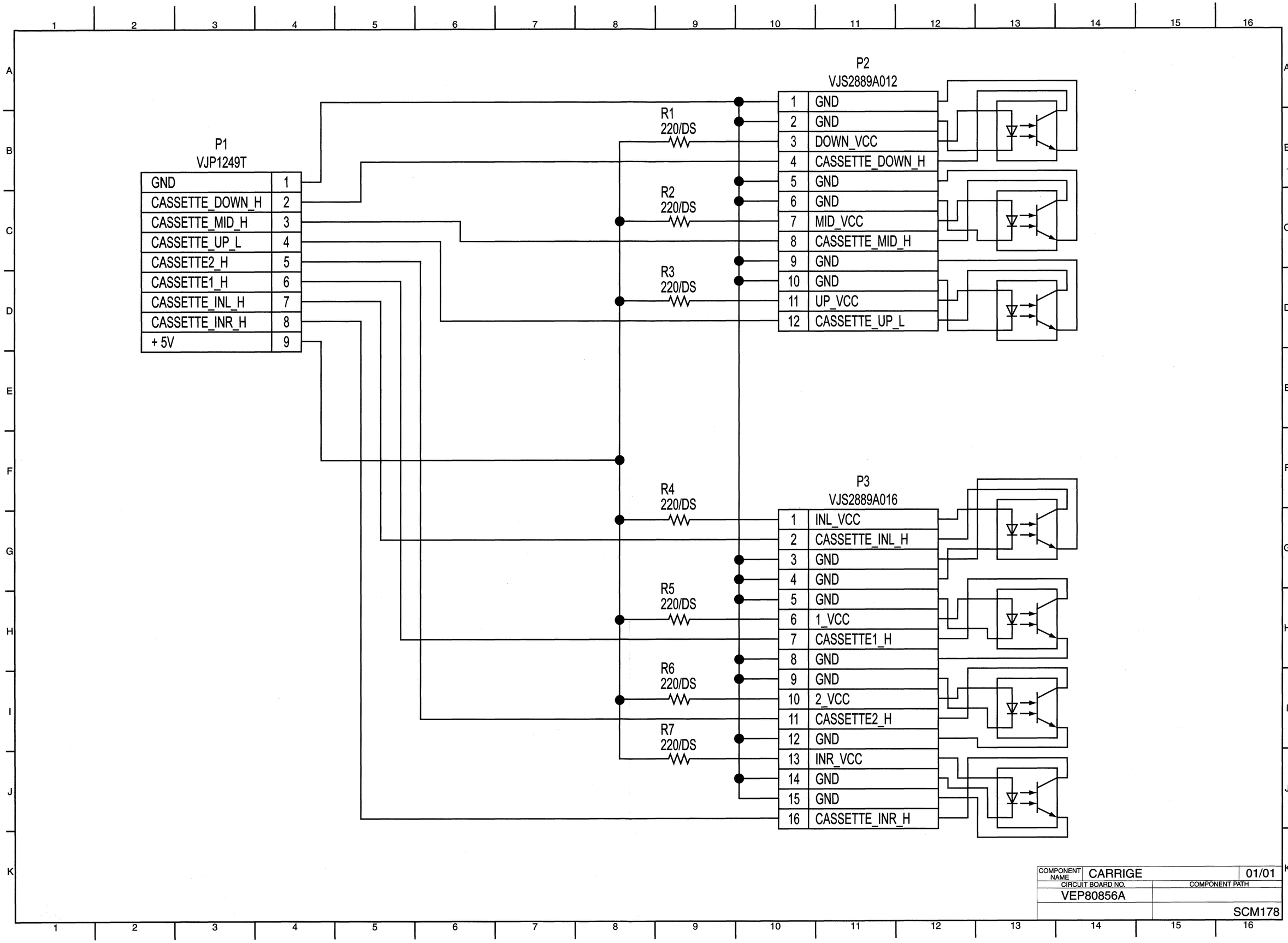
COMPONENT NAME	MECHA IF	02/04
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82216B		
KR2C31(2/4)		SCM175

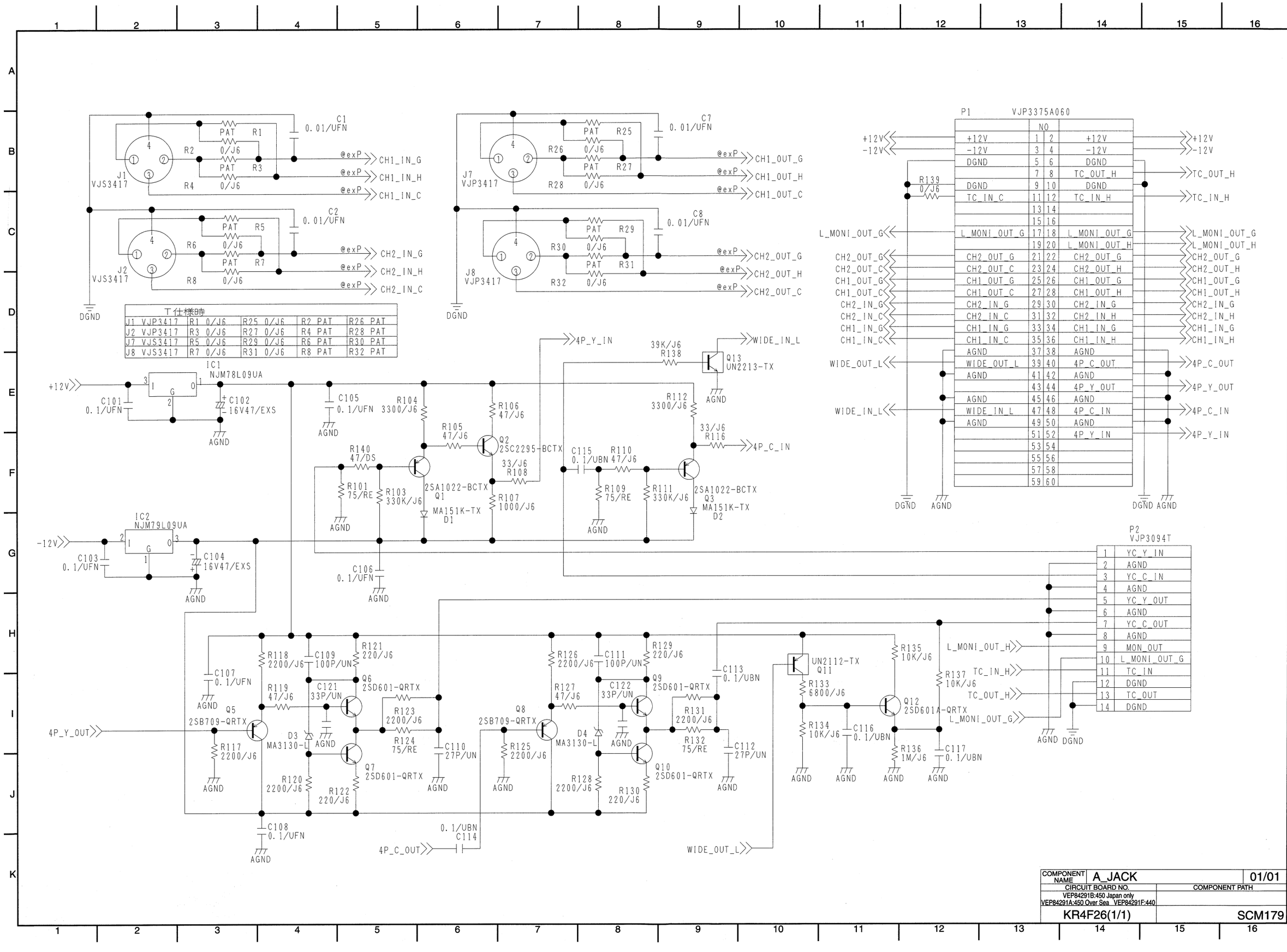


COMPONENT NAME	MECHA IF	03/04
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82216B		
KR2C31(3/4)		SCM176

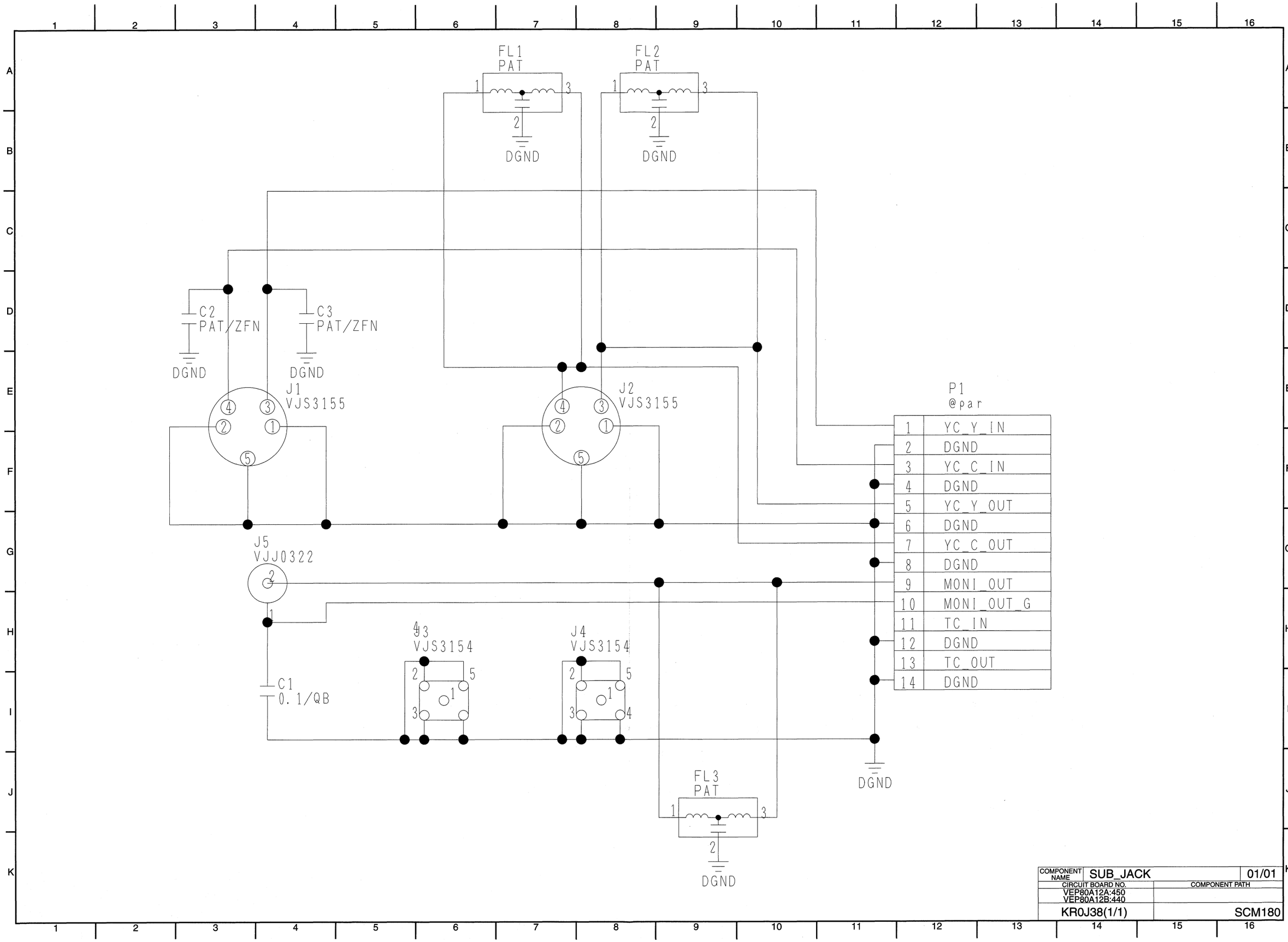


COMPONENT NAME	MECHA IF	04/04
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82216B		
KR2C31(4/4)		SCM177


P1
VJP1249T
GND 1
CASSETTE_DOWN_H 2
CASSETTE_MID_H 3
CASSETTE_UP_L 4
CASSETTE2_H 5
CASSETTE1_H 6
CASSETTE_INL_H 7
CASSETTE_INR_H 8
+ 5V 9
P2
VJS2889A012
1 GND
2 GND
3 DOWN_VCC
4 CASSETTE_DOWN_H
5 GND
6 GND
7 MID_VCC
8 CASSETTE_MID_H
9 GND
10 GND
11 UP_VCC
12 CASSETTE_UP_L
R1 220/DS
R2 220/DS
R3 220/DS
R4 220/DS
R5 220/DS
R6 220/DS
R7 220/DS
P3
VJS2889A016
1 INL_VCC
2 CASSETTE_INL_H
3 GND
4 GND
5 GND
6 1_VCC
7 CASSETTE1_H
8 GND
9 GND
10 2_VCC
11 CASSETTE2_H
12 GND
13 INR_VCC
14 GND
15 GND
16 CASSETTE_INR_H
COMPONENT NAME CARRIGE 01/01
CIRCUIT BOARD NO. VEP80856A
COMPONENT PATH
SCM178



COMPONENT NAME	A_JACK				01/01
CIRCUIT BOARD NO.				COMPONENT PATH	
VEP84291B:450 Japan only VEP84291A:450 Over Sea VEP84291F:440					
KR4F26(1/1)				SCM179	

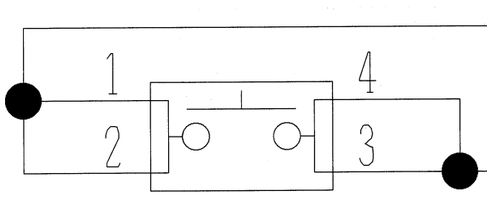


COMPONENT NAME	SUB_JACK 01/01
CIRCUIT BOARD NO.	COMPONENT PATH
VEP80A12A:450 VEP80A12B:440	
KR0J38(1/1)	SCM180

TO FRONT

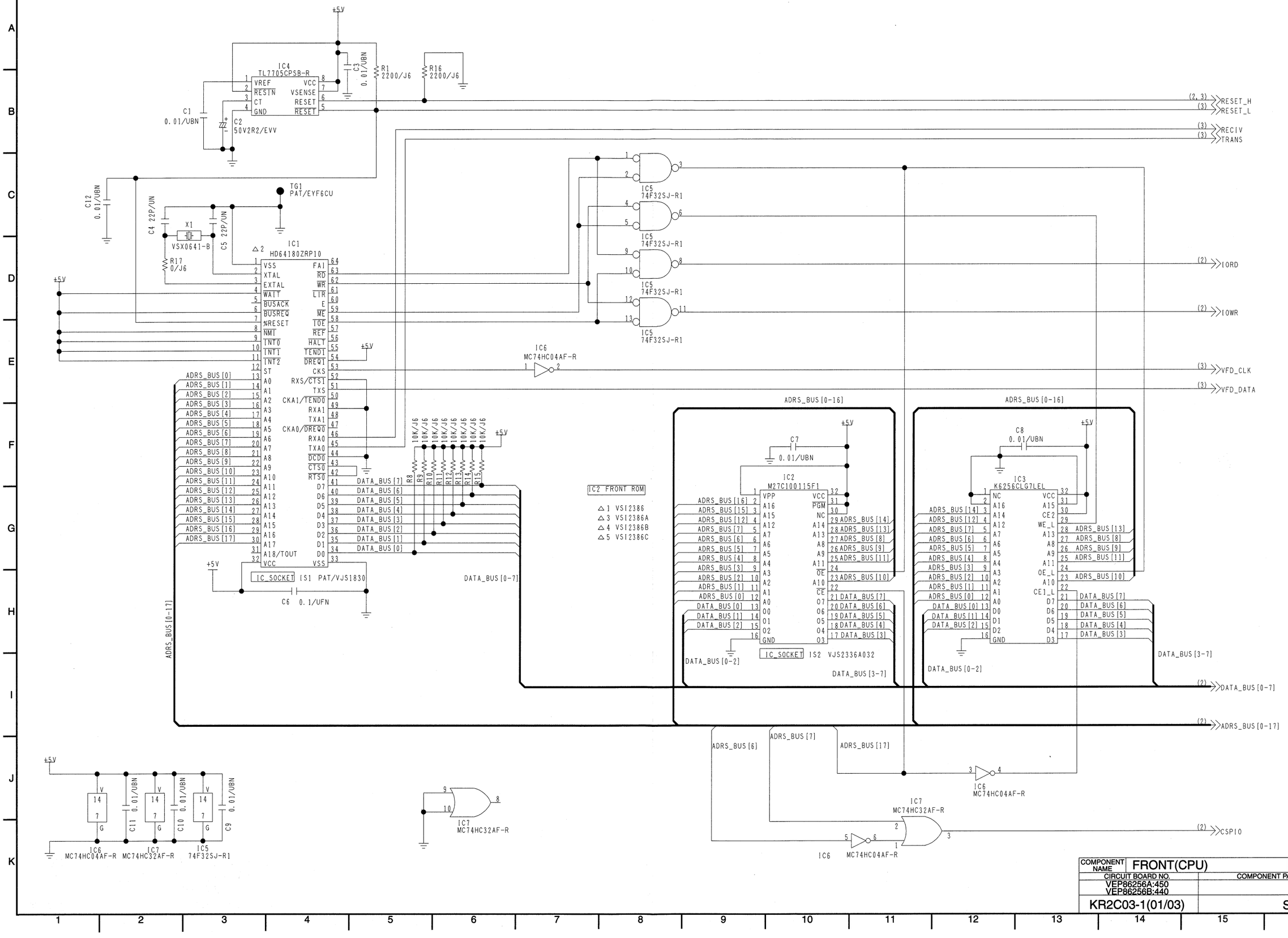
P5
VJP1243T

1	EJECT1
2	
3	EJECT2

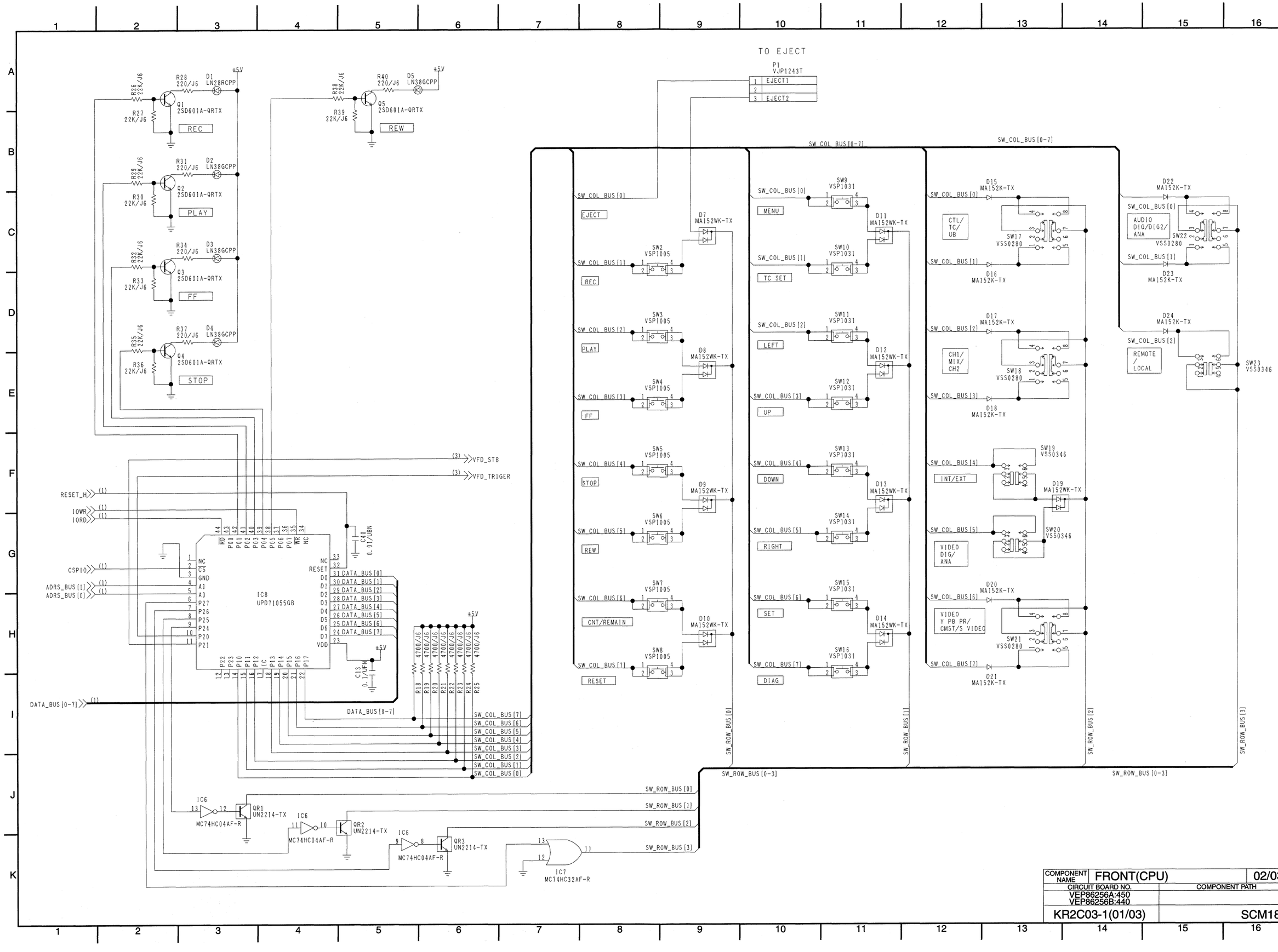


SW1
VSP1005

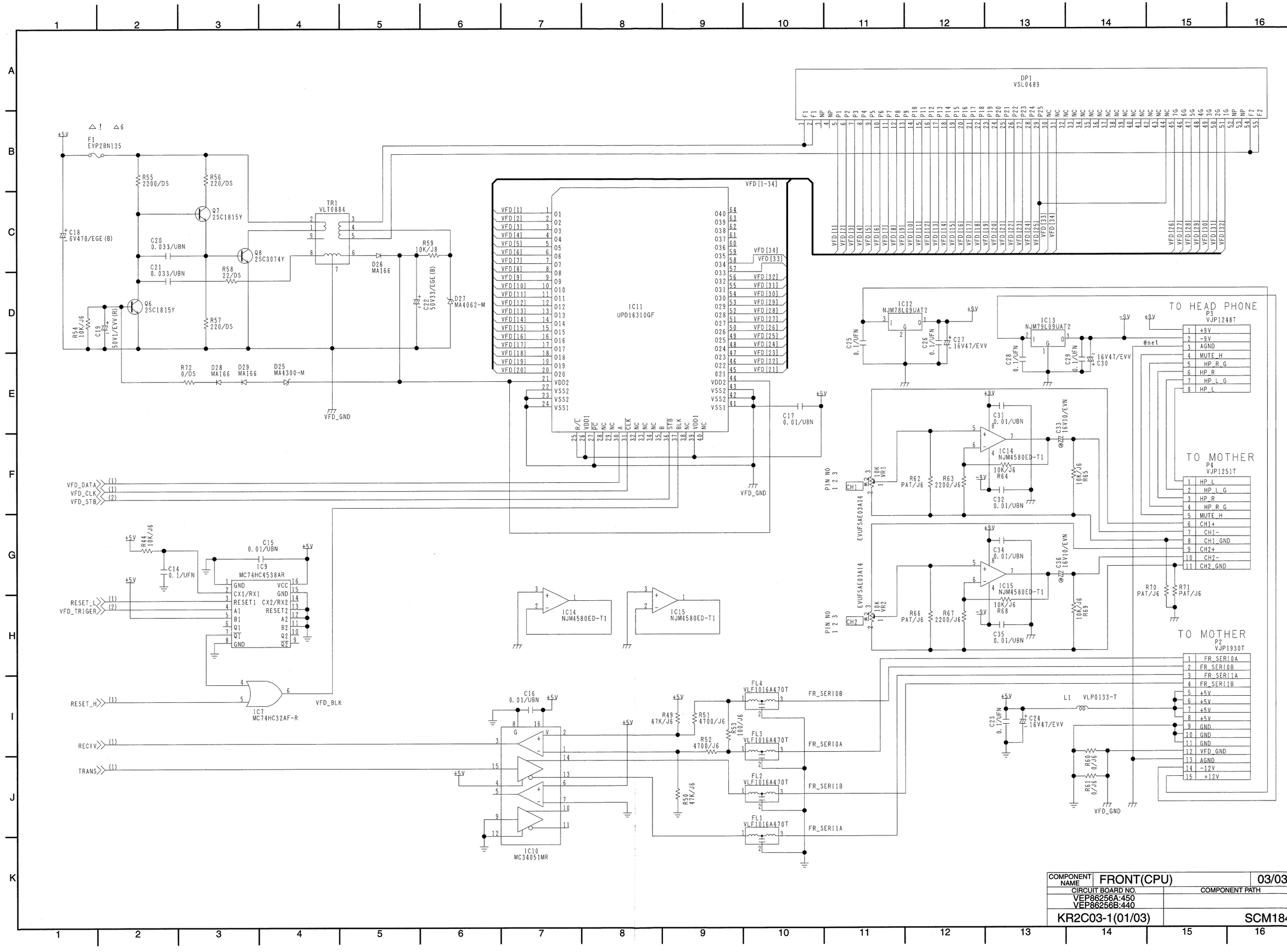
COMPONENT NAME	EJECT	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A09A		
KR0J35(1/1)		SCM181

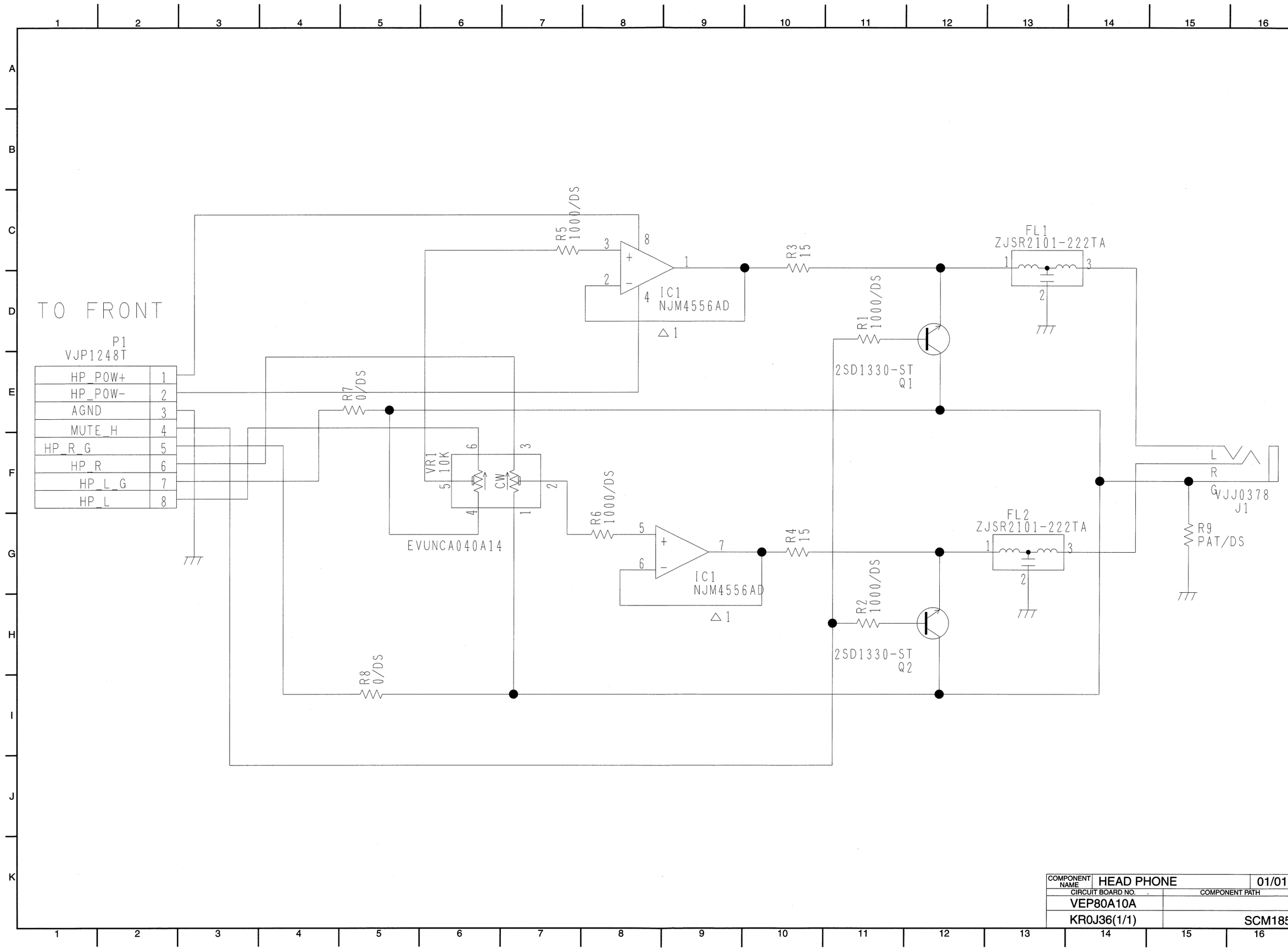


COMPONENT NAME	FRONT(CPU)	01/03
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86256A:450 VEP86256B:440		
KR2C03-1(01/03)		SCM182



COMPONENT NAME	FRONT(CPU)	02/03
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86256A:450 VEP86256B:440		
KR2C03-1(01/03)		SCM183


DP1
VSL0489
F1
EYP2BN135
+5V
R55
2200/DS
R56
220/DS
Q7
2SC1815Y
C18
6V470/EGE(B)
C20
0.033/UBN
C21
0.033/UBN
Q8
2SC3074Y
R58
22/DS
TR1
VLT0884
D26
MA166
R59
10K/J8
C22
50V33/EGE(B)
D27
MA4062-M
Q6
2SC1815Y
R54
10K/J6
C19
50V1/EVV(R)
R57
220/DS
R72
0/DS
D28
MA166
D29
MA166
D25
MA4300-M
VFD_GND
IC11
UPD16310GF
VFD[1-34]
C17
0.01/UBN
IC12
NJM78L09UAT2
IC13
NJM79L09UAT2
C25
0.1/UFN
C26
0.1/UFN
C27
16V47/EVV
C28
0.1/UFN
C29
0.1/UFN
C30
16V47/EVV
-9V
+9V
@net
TO HEAD PHONE
P3
VJP1248T
1 +9V
2 -9V
3 AGND
4 MUTE_H
5 HP_R_G
6 HP_R
7 HP_L_G
8 HP_L
C31
0.01/UBN
C33
16V10/EVN
IC14
NJM4580ED-T1
R62
PAT/J6
R63
2200/J6
R64
10K/J6
R65
10K/J6
C32
0.01/UBN
PIN NO
1 2 3
CH1
EVUF5AE03A14
10K
VR1
TO MOTHER
P4
VJP1251T
1 HP_L
2 HP_L_G
3 HP_R
4 HP_R_G
5 MUTE_H
6 CH1+
7 CH1-
8 CH1_GND
9 CH2+
10 CH2-
11 CH2_GND
C34
0.01/UBN
C36
16V10/EVN
IC15
NJM4580ED-T1
R66
PAT/J6
R67
2200/J6
R68
10K/J6
R69
10K/J6
C35
0.01/UBN
CH2
10K
VR2
R70
PAT/J6
R71
PAT/J6
TO MOTHER
P2
VJP1930T
1 FR_SER10A
2 FR_SER10B
3 FR_SER11A
4 FR_SER11B
5 +5V
6 +5V
7 +5V
8 +5V
9 GND
10 GND
11 GND
12 VFD_GND
13 AGND
14 -12V
15 +12V
L1
VLP0133-T
C23
0.1/UFN
C24
16V47/EVV
R60
0/J6
R61
0/J6
VFD_DATA
VFD_CLK
VFD_STB
RESET_L
VFD_TRIGER
RESET_H
RECIV
TRANS
R44
10K/J6
C14
0.1/UFN
C15
0.01/UBN
IC9
MC74HC4538AR
IC7
MC74HC32AF-R
VFD_BLK
C16
0.01/UBN
IC10
MC34051MR
R48
47K/J6
R51
4700/J6
R53
100/J6
R52
4700/J6
R50
47K/J6
FL4
VLF1016A470T
FL3
VLF1016A470T
FL2
VLF1016A470T
FL1
VLF1016A470T
FR_SER10B
FR_SER10A
FR_SER11B
FR_SER11A
COMPONENT NAME
FRONT(CPU)
03/03
CIRCUIT BOARD NO.
VEP86256A:450
VEP86256B:440
COMPONENT PATH
KR2C03-1(01/03)
SCM184



COMPONENT NAME	HEAD PHONE	01/01
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A10A		
KR0J36(1/1)		SCM185

SECTION 8

CIRCUIT BOARD DIAGRAMS

CONTENTS

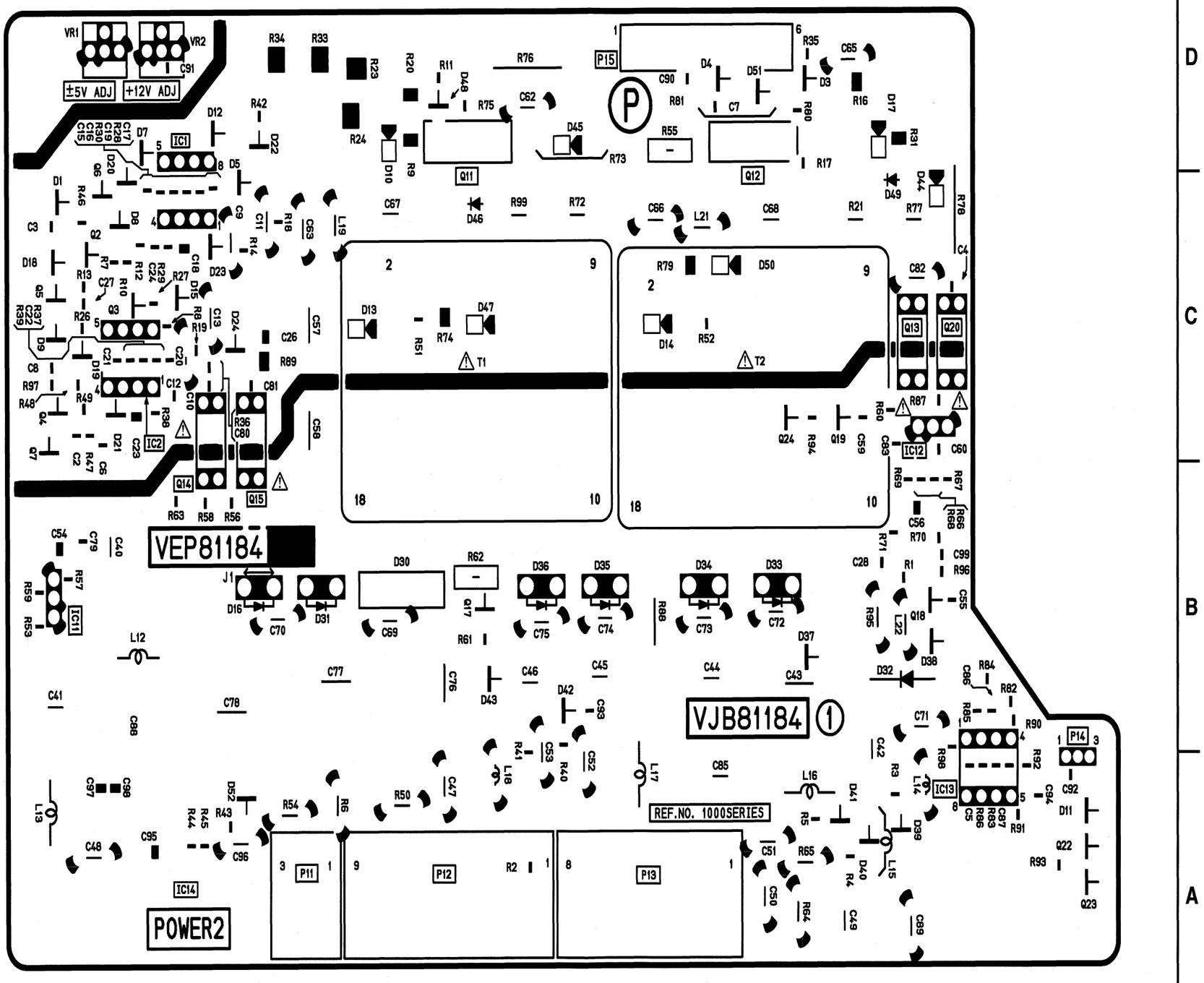
NOTE:
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST.
AND MAY BE SLIGHTLY DIFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

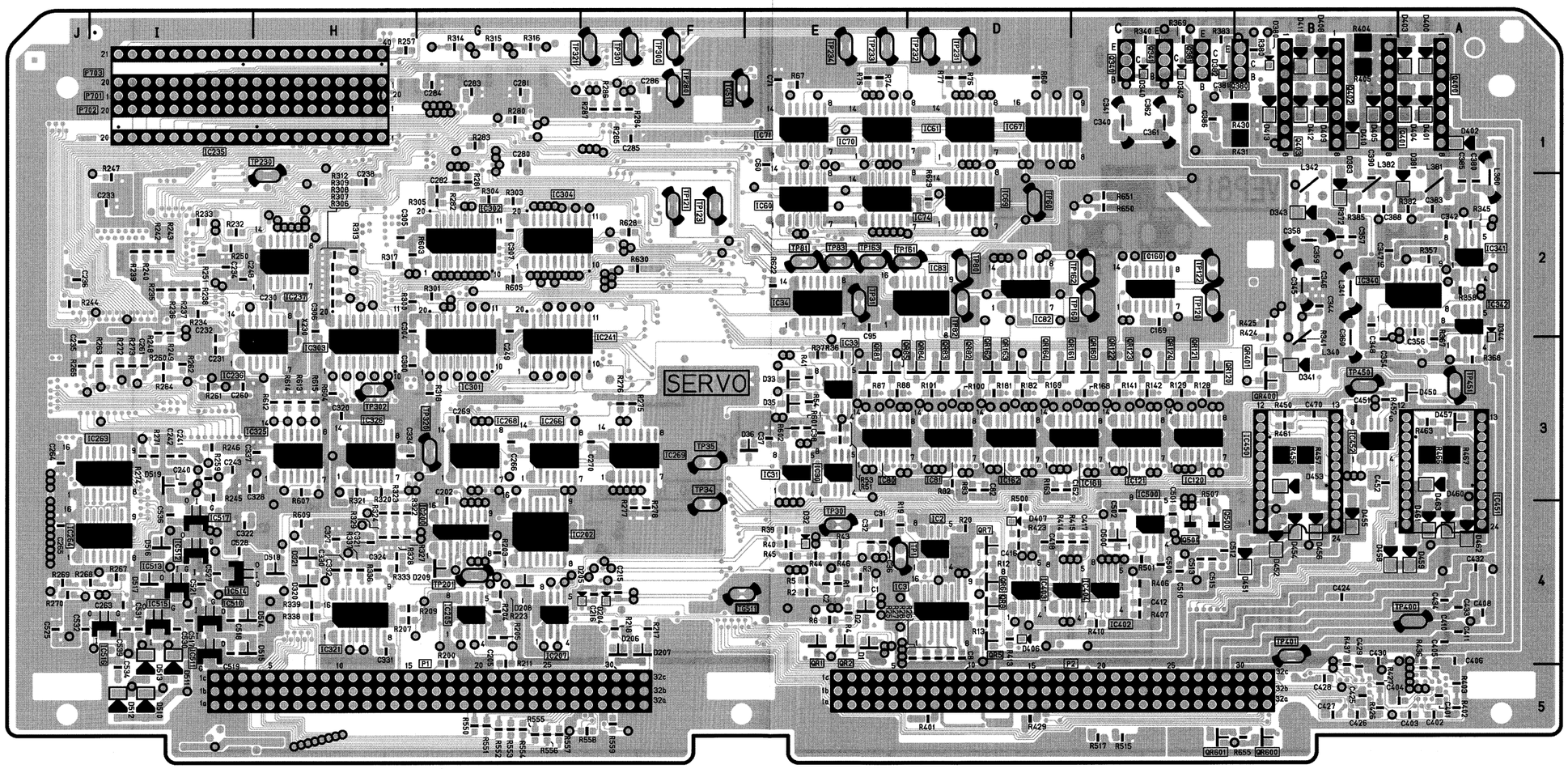
MOTHER P.C. BOARD (VEP80A11A)



F1: SERVO P.C. BOARD (VEP82105F: NTSC, VEP82105G: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC120	C3	IC264	I4	IC33	E3	IC514	I4	IC83	D2	QR2	E4
IC121	C3	IC266	G3	IC34	E2	IC515	I4	Q500	C4	QR400	B3
IC160	C2	IC268	G3	IC340	A2	IC516	I4	Q501	C4	QR401	B3
IC161	C3	IC269	F3	IC341	A2	IC517	I4	QR1	E4	QR5	D4
IC162	D3	IC3	D4	IC342	A2	IC60	E2	QR120	C3	QR6	D4
IC2	D4	IC30	E3	IC402	C4	IC61	D1	QR121	C3	QR600	B5
IC200	G4	IC301	G3	IC403	D4	IC67	D1	QR122	C3	QR601	C5
IC202	G4	IC302	G2	IC404	D4	IC69	D2	QR123	C3	QR7	D4
IC205	G4	IC303	H3	IC452	B3	IC70	E1	QR124	C3	QR8	D4
IC207	G4	IC304	G2	IC500	C4	IC71	E1	QR160	C3	QR81	E3
IC236	H3	IC31	E3	IC510	I4	IC74	E2	QR161	D3	QR82	D3
IC237	H2	IC321	H4	IC511	I4	IC80	E3	QR162	D3	QR83	D3
IC241	G3	IC325	H3	IC512	I4	IC81	D3	QR163	D3	QR84	D3
IC263	I3	IC326	H3	IC513	I4	IC82	D2	QR164	D3	QR85	E3

(FOIL SIDE)

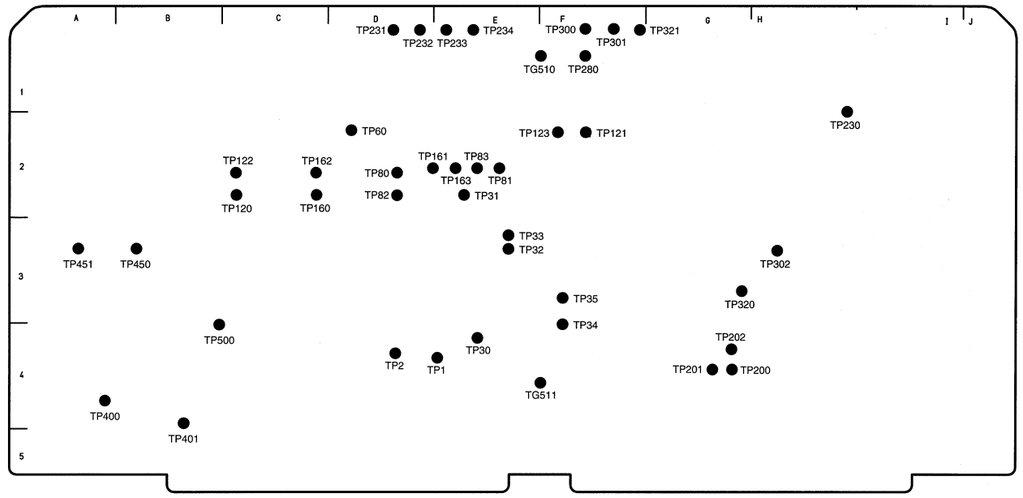


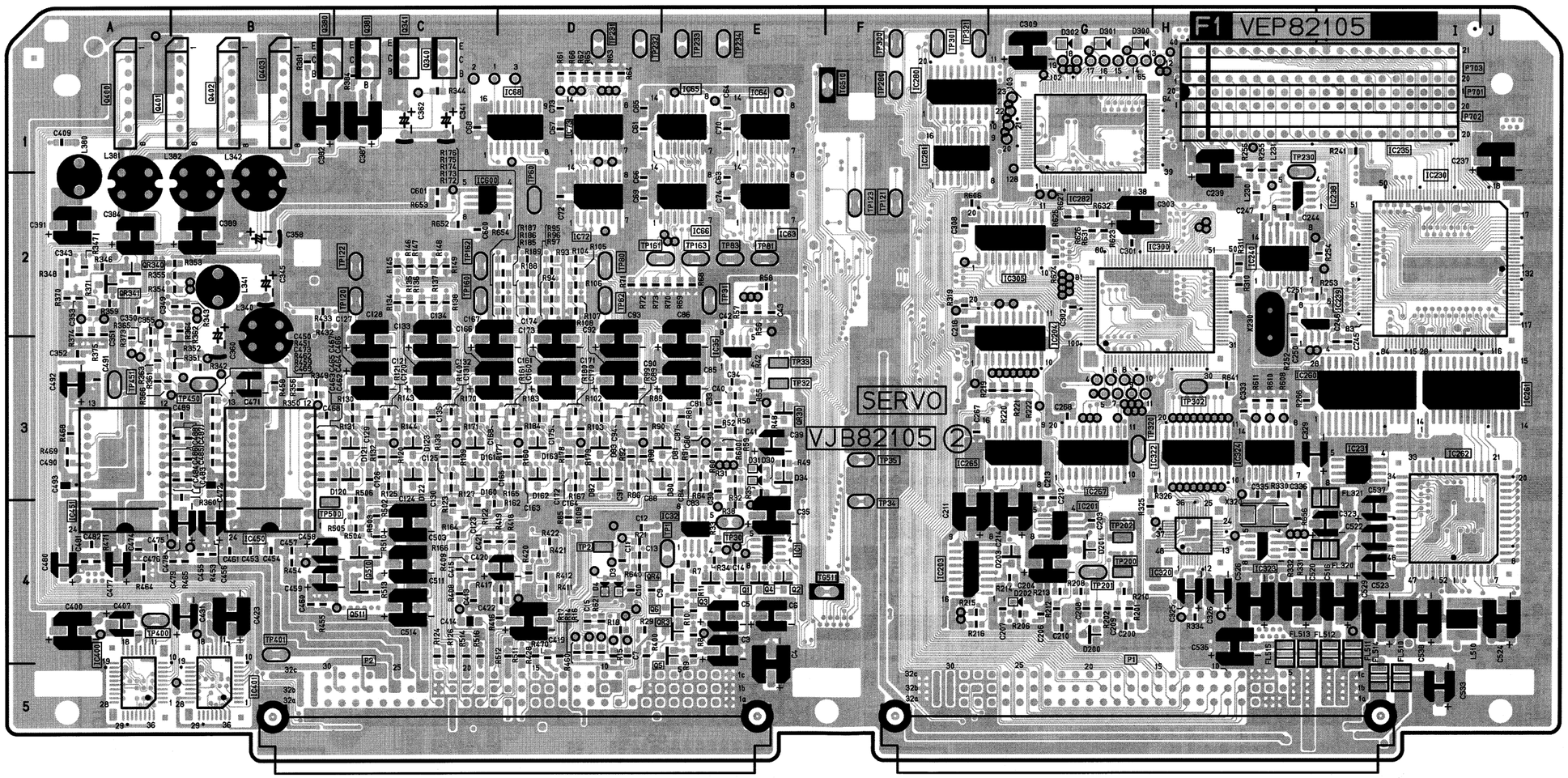
(FOIL SIDE)

F1: SERVO P.C. BOARD (VEP82105F: NTSC, VEP82105G: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	E4	IC320	H4	P703	H1	QR4	E4	TP280	F1	TP83	E2
IC201	G4	IC322	H3	Q1	E4	TG510	F1	TP30	E4	X230	H2
IC203	F4	IC323	H4	Q2	E4	TG511	F4	TP300	F1	X320	H4
IC204	G3	IC324	H3	Q3	E4	TP1	E4	TP301	F1		
IC230	I2	IC35	E3	Q340	C1	TP120	C2	TP302	H3		
IC231	I3	IC400	A5	Q341	C1	TP121	F2	TP31	E2		
IC235	H1	IC401	B5	Q380	B1	TP122	C2	TP32	E3		
IC238	H2	IC450	B4	Q381	C1	TP123	F2	TP320	G3		
IC239	H2	IC451	A4	Q4	E4	TP160	C2	TP321	F1		
IC240	H2	IC600	C2	Q400	A1	TP161	D2	TP33	E3		
IC260	I3	IC63	E2	Q401	B1	TP162	C2	TP34	F4		
IC261	I3	IC64	E1	Q402	B1	TP163	E2	TP35	F3		
IC262	I4	IC65	E1	Q403	B1	TP2	D4	TP400	A4		
IC265	G3	IC66	E2	Q5	E4	TP200	G4	TP401	B4		
IC267	G3	IC68	D1	Q510	C4	TP201	G4	TP450	B3		
IC280	F1	IC72	D2	Q511	C4	TP202	G4	TP451	A3		
IC281	F1	IC73	D1	Q6	E4	TP230	H2	TP500	B4		
IC282	G1	P1	G5	QR3	E4	TP231	D1	TP60	D2		
IC300	H2	P2	D5	QR30	E3	TP232	D1	TP80	D2		
IC305	G2	P701	I1	QR340	A2	TP233	E1	TP81	E2		
IC32	E4	P702	H1	QR341	A2	TP234	E1	TP82	D2		

(COMPONENT SIDE)



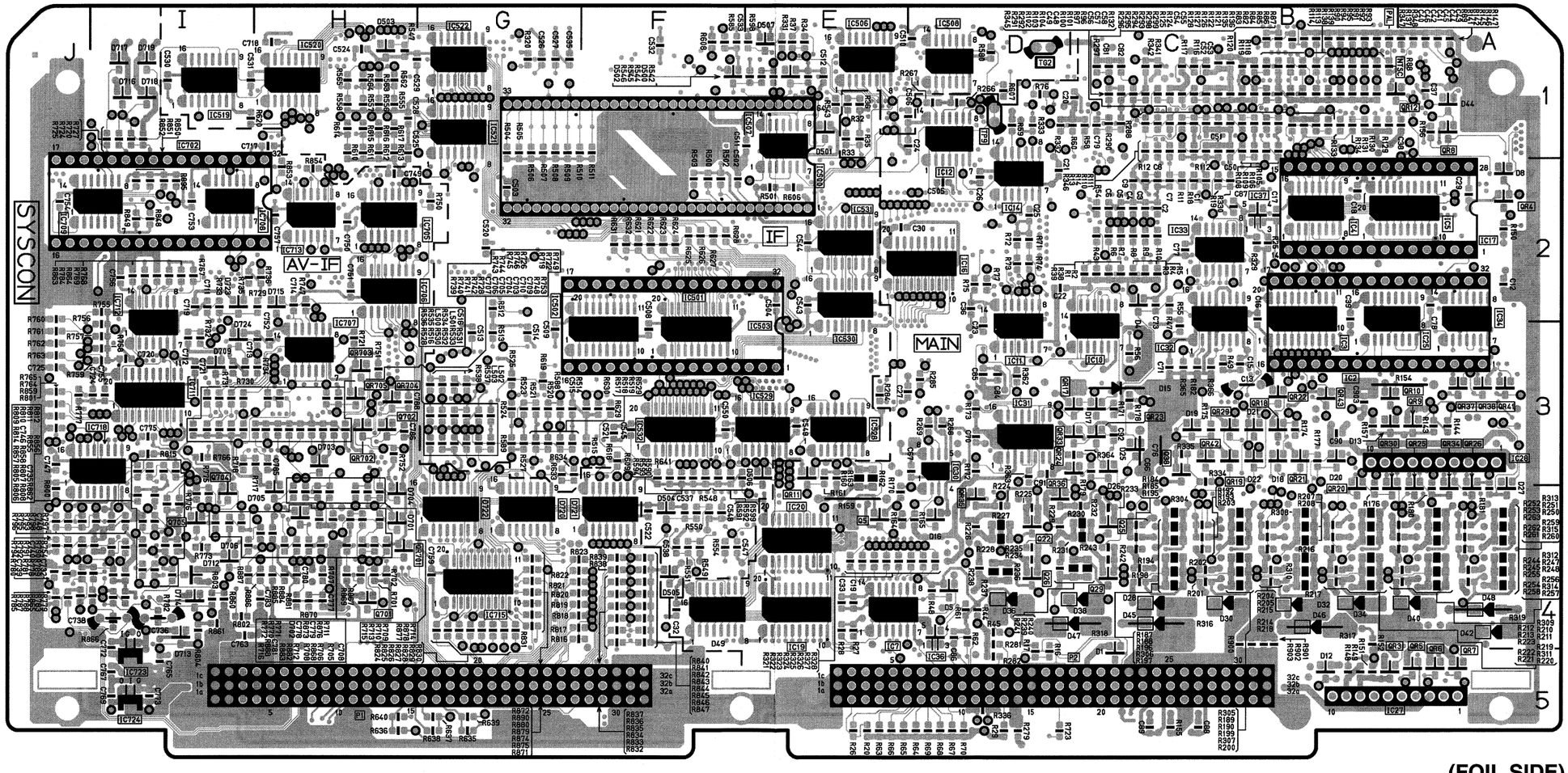


(COMPONENT SIDE)

F2: SYSCON P.C. BOARD (VEP86146M: 450 (NTSC), VEP86146P: 440 (NTSC), VEP86146N: 450 (PAL), VEP86146Q: 440 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC10	C2	IC36	D4	IC529	E3	IC718	I3	QR11	E3	QR30	B4	QR702	H3
IC11	D2	IC37	B2	IC530	E2	IC723	I5	QR12	B1	QR33	C3	QR703	H3
IC12	D1	IC4	B2	IC531	E2	IC724	I5	QR17	C3	QR34	A4	QR704	H3
IC14	D2	IC5	A2	IC532	F3	Q22	D4	QR18	B3	QR35	D4	QR705	H3
IC16	D2	IC501	F2	IC7	E4	Q25	C4	QR19	C3	QR36	D4	QR8	A1
IC19	E4	IC502	F2	IC705	H2	Q26	D4	QR20	B4	QR37	A3	QR9	A3
IC20	E4	IC506	E1	IC706	H2	Q29	C4	QR21	B3	QR38	A3		
IC25	B2	IC507	E1	IC707	H3	Q38	C3	QR22	B3	QR4	A2		
IC3	B2	IC508	D1	IC708	I2	Q5	E4	QR23	C3	QR41	A3		
IC30	D3	IC519	I1	IC709	I2	Q701	H4	QR24	C3	QR42	C3		
IC31	D3	IC520	H1	IC711	I3	Q702	H3	QR25	A4	QR5	A5		
IC32	C2	IC521	G1	IC712	I2	Q704	I4	QR26	A4	QR6	A5		
IC33	C2	IC522	G1	IC713	H2	Q705	I4	QR29	C3	QR7	A5		
IC34	A2	IC528	E3	IC715	G4	QR10	B3	QR3	B5	QR701	H4		

(FOIL SIDE)

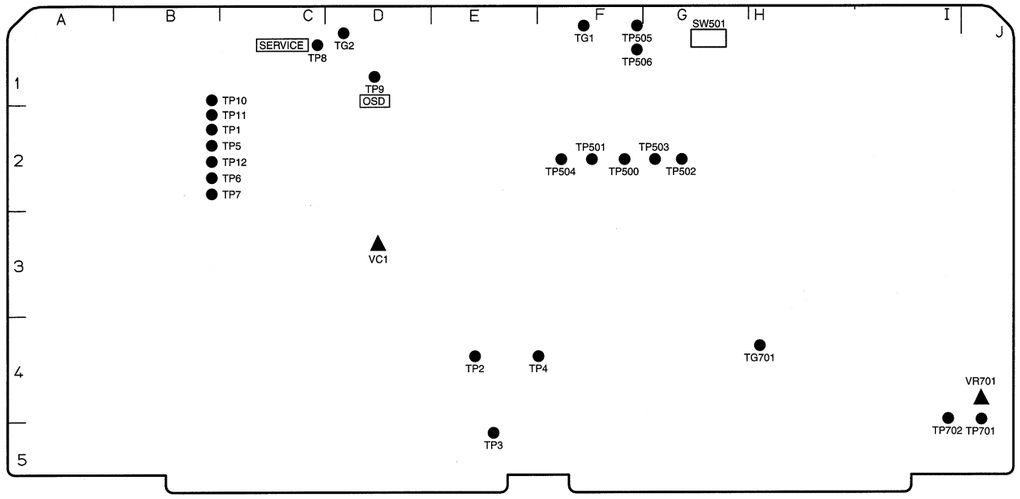


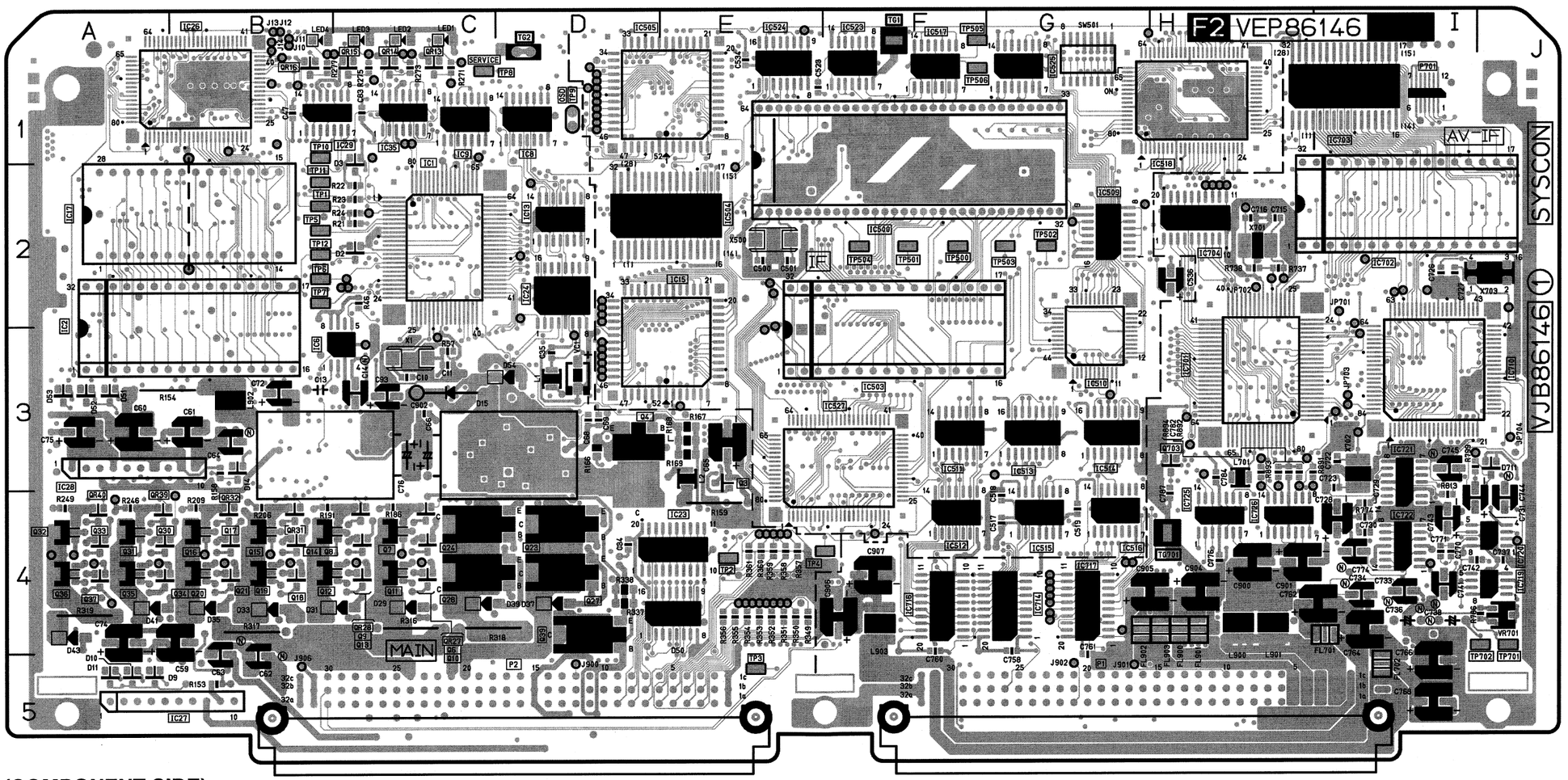
(FOIL SIDE)

F2: SYSCON P.C. BOARD (VEP86146M: 450 (NTSC), VEP86146P: 440 (NTSC), VEP86146N: 450 (PAL), VEP86146Q: 440 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	C2	IC514	G3	IC722	I4	Q24	C4	QR15	C1	TP500	F2
IC13	D2	IC515	G4	IC725	H4	Q27	D4	QR16	B1	TP501	F2
IC15	E3	IC516	G4	IC726	H4	Q28	C4	QR27	C4	TP502	G2
IC17	A2	IC517	F1	IC8	D1	Q3	E3	QR28	C4	TP503	G2
IC2	A3	IC518	H1	IC9	C1	Q30	A4	QR31	B4	TP504	F2
IC23	E4	IC523	F1	P1	G5	Q31	A4	QR32	B4	TP505	F1
IC24	D2	IC524	E1	P2	D5	Q32	A4	QR39	A4	TP506	F1
IC26	B1	IC525	G1	P701	I1	Q33	A4	QR40	A4	TP6	B2
IC27	A5	IC527	F3	Q10	C4	Q34	A4	SW500	D1	TP7	B2
IC28	A3	IC6	C3	Q11	C4	Q35	A4	SW501	G1	TP701	J4
IC29	B1	IC701	H3	Q12	B4	Q36	A4	TG1	F1	TP702	J4
IC35	C1	IC702	H2	Q13	C4	Q37	A4	TG2	D1	TP8	C1
IC500	E2	IC703	I1	Q14	B4	Q39	D4	TG701	H4	TP9	D1
IC503	E3	IC704	H2	Q15	B4	Q4	D3	TP1	B2	VC1	D3
IC504	E2	IC710	I3	Q16	B4	Q6	C4	TP10	B1	VR701	J4
IC505	E1	IC714	G4	Q17	B4	Q7	C4	TP11	B2	X1	C3
IC509	G2	IC716	F4	Q18	B4	Q703	H3	TP12	B2	X500	E2
IC510	G3	IC717	G4	Q19	B4	Q8	B4	TP2	E4	X701	H2
IC511	F3	IC719	J4	Q20	B4	Q9	C4	TP3	E5	X702	I3
IC512	F4	IC720	J4	Q21	B4	QR13	C1	TP4	F4	X703	J2
IC513	G3	IC721	I3	Q23	D4	QR14	C1	TP5	B2		

(COMPONENT SIDE)



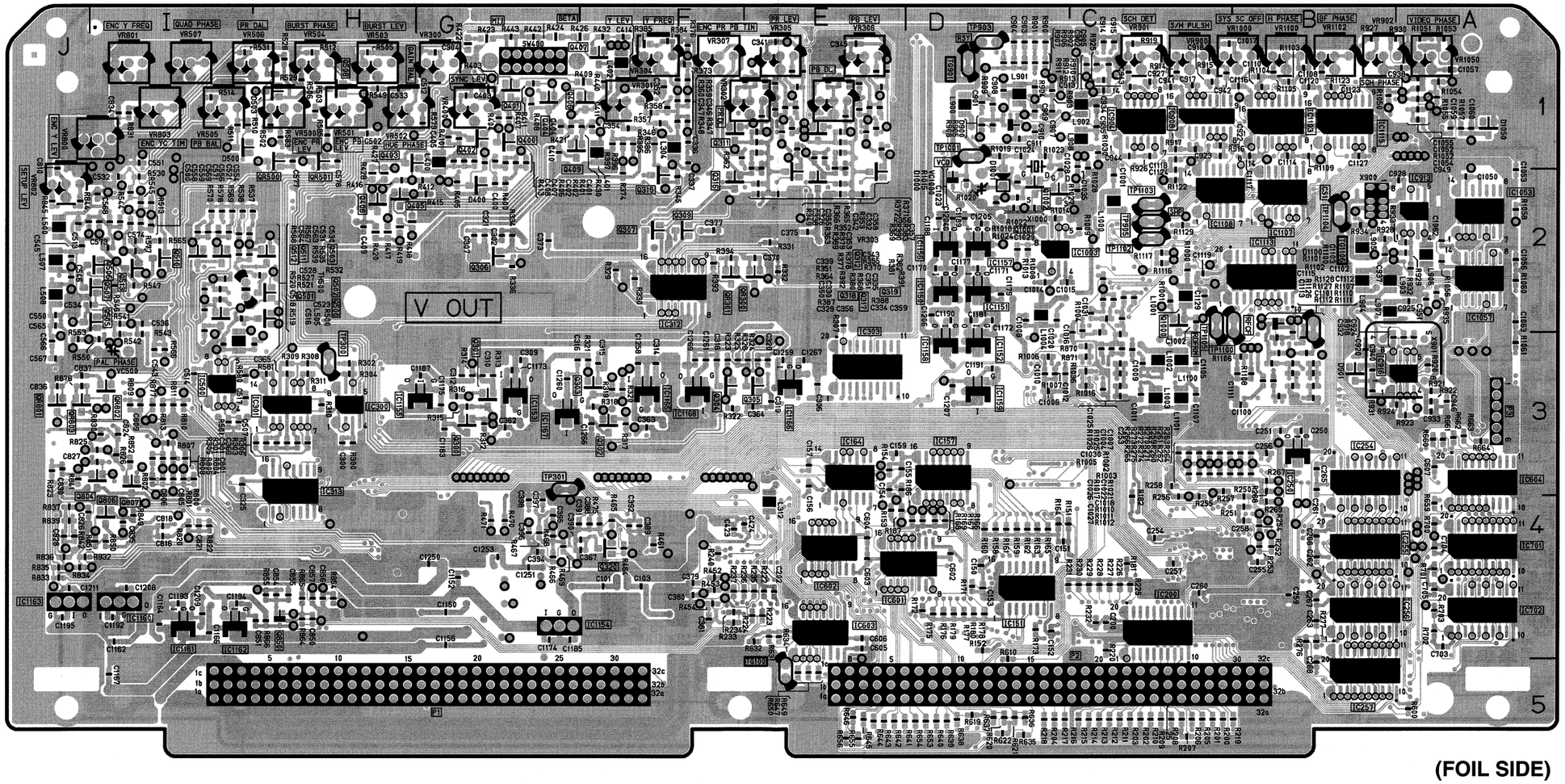


(COMPONENT SIDE)

F4: V OUT P.C. BOARD (VEP83352A: Japan only, VEP83352C: NTSC, VEP83352B: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1003	D2	IC1157	D2	IC254	B3	IC701	A4	Q305	E3	Q402	G1	Q507	I2	QR801	J3
IC1053	A2	IC1158	D3	IC255	B4	IC702	A4	Q306	G2	Q403	H1	Q508	H1	QR802	I3
IC1057	A2	IC1159	D3	IC256	B4	IC904	C1	Q307	F2	Q404	G1	Q510	I2	QR803	J3
IC1103	B1	IC1161	I4	IC257	B5	IC908	C1	Q309	F2	Q405	H2	Q511	I2		
IC1107	B2	IC1162	I4	IC300	H3	IC913	A2	Q311	F1	Q406	F1	Q512	I2		
IC1108	C2	IC1165	F3	IC301	H3	IC916	A3	Q312	E1	Q407	F1	Q513	I2		
IC1113	B2	IC1166	E3	IC303	E3	Q1000	C2	Q315	F2	Q408	H2	Q804	I3		
IC1115	B1	IC1167	G3	IC312	F2	Q1001	D2	Q316	F2	Q409	G1	Q806	I4		
IC1150	D2	IC1168	F3	IC313	H3	Q1002	D2	Q317	E2	Q500	H2	Q807	I3		
IC1151	D2	IC151	D4	IC500	I3	Q300	G3	Q318	E2	Q501	I2	Q850	H4		
IC1152	D3	IC157	D3	IC601	D4	Q301	G3	Q319	E2	Q502	H2	QR300	E2		
IC1153	G3	IC164	E3	IC602	E4	Q302	F3	Q320	F4	Q503	H2	QR301	F2		
IC1155	G3	IC200	C4	IC603	E4	Q303	F3	Q400	G1	Q505	I2	QR500	H1		
IC1156	D2	IC250	B3	IC604	A3	Q304	F3	Q401	G1	Q506	I2	QR501	H1		

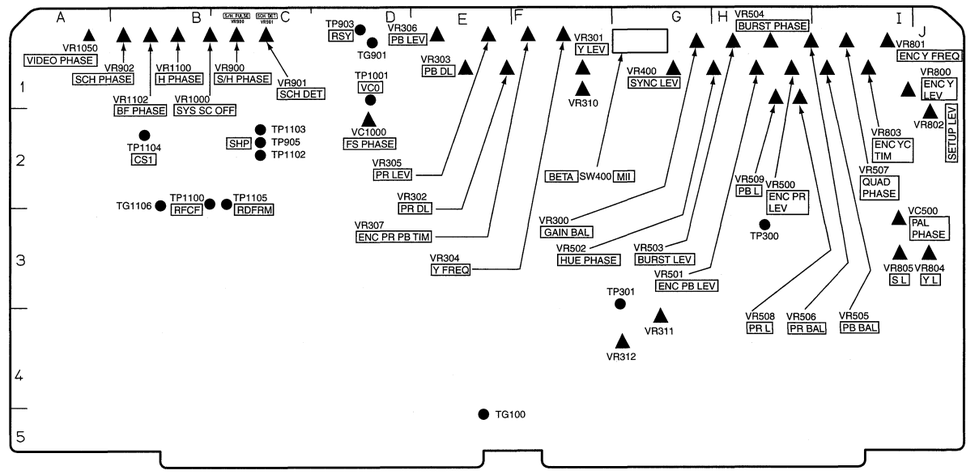
(FOIL SIDE)



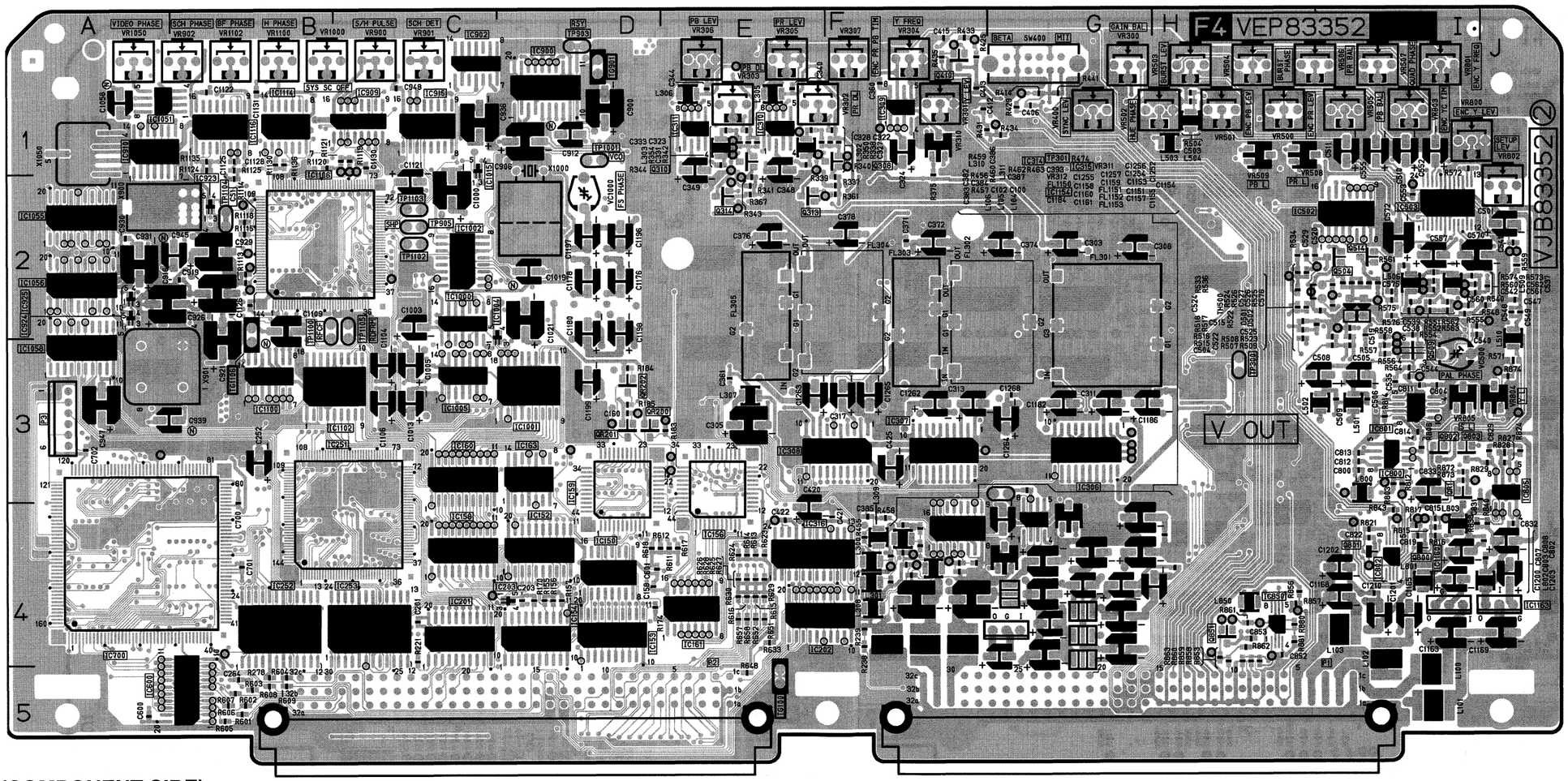
(FOIL SIDE)

F4: V OUT P.C. BOARD (VEP83352A: Japan only, VEP83352C: NTSC, VEP83352B: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1000	C2	IC153	D4	IC314	F4	P1	G5	SW400	G1	VR300	G1	VR508	H1
IC1001	D3	IC154	D4	IC315	G4	P2	D5	TG100	E5	VR301	F1	VR509	H1
IC1002	C2	IC156	E3	IC316	E4	P3	A3	TG1106	B3	VR302	E1	VR800	I1
IC1004	C3	IC158	C4	IC502	I2	Q308	F1	TG901	D1	VR303	E1	VR801	I1
IC1005	C3	IC159	D3	IC503	I2	Q310	E1	TP1001	D1	VR304	F1	VR802	J2
IC1015	C2	IC160	C3	IC600	B5	Q313	E2	TP1100	B2	VR305	E1	VR803	I1
IC1051	A1	IC161	E4	IC700	A4	Q314	E2	TP1102	C2	VR306	E1	VR804	J3
IC1055	A2	IC163	D3	IC800	I3	Q410	F1	TP1103	C2	VR307	F1	VR805	I3
IC1056	A2	IC201	C4	IC801	I3	Q504	I2	TP1104	B2	VR310	F1	VR900	C1
IC1058	A3	IC202	E4	IC802	I4	Q509	I3	TP1105	C2	VR311	G4	VR901	C1
IC1100	B3	IC203	D4	IC805	J3	Q514	I2	TP300	H3	VR312	G4	VR902	B1
IC1102	B3	IC251	C4	IC850	H4	Q800	I4	TP301	G3	VR400	G1	X1000	D2
IC1106	B2	IC252	B4	IC900	D1	Q801	I4	TP903	D1	VR500	H1	X1050	A1
IC1114	B1	IC253	C4	IC902	C1	Q802	I3	TP905	C2	VR501	H1	X900	A2
IC1116	B1	IC306	G3	IC909	C1	Q803	I3	VC1000	D2	VR502	H1	X901	B3
IC1154	G4	IC307	F3	IC910	A1	Q851	H4	VC500	I3	VR503	H1		
IC1160	I4	IC308	F3	IC915	C1	QR1	I4	VR1000	B1	VR504	H1		
IC1163	J4	IC309	F1	IC923	B2	QR200	D3	VR1050	A1	VR505	I1		
IC150	D4	IC310	E1	IC924	A2	QR201	D3	VR1100	B1	VR506	I1		
IC152	D4	IC311	E1	IC925	A2	QR202	D3	VR1102	B1	VR507	I1		



(COMPONENT SIDE)

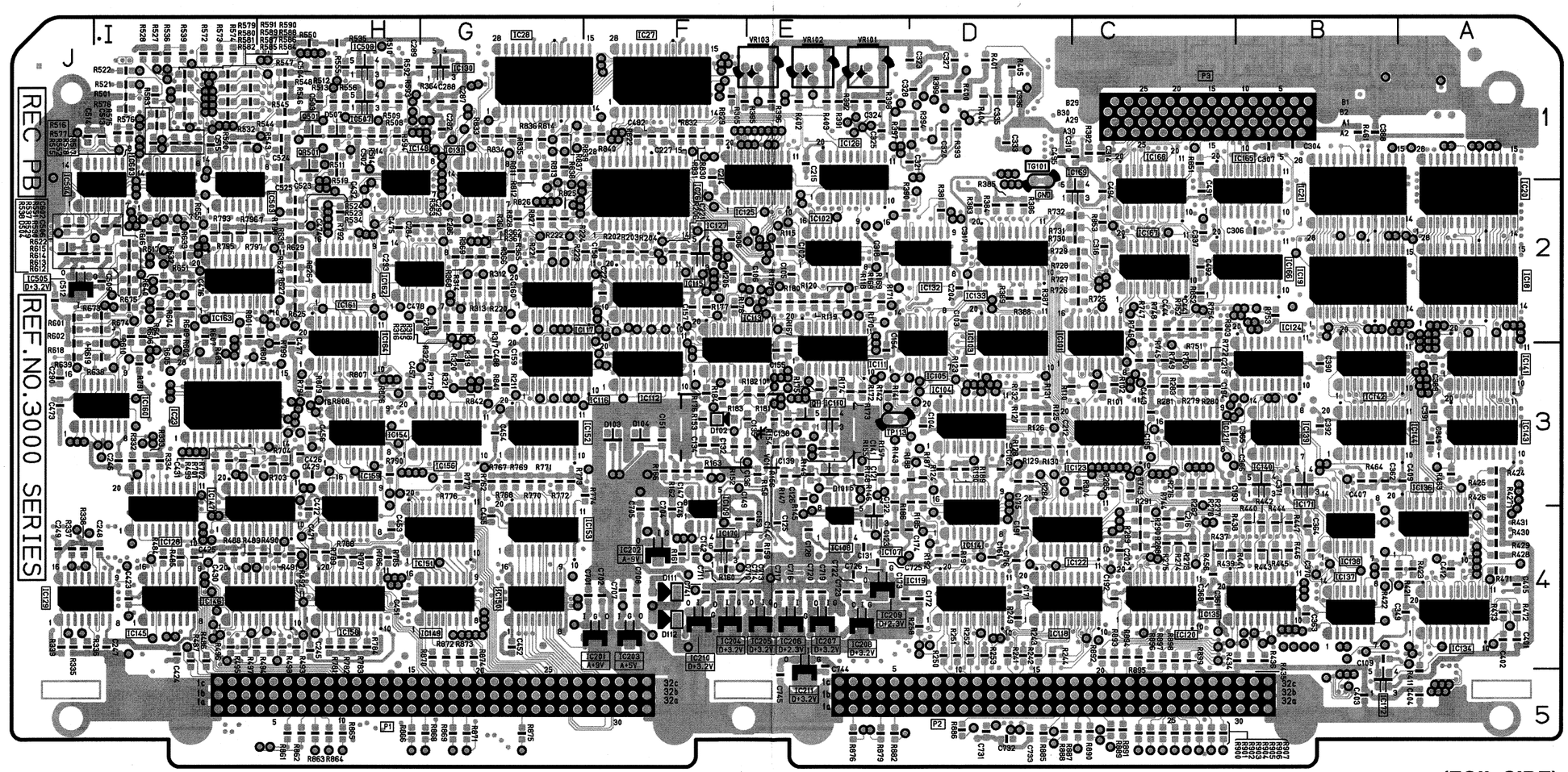


(COMPONENT SIDE)

F5: REC PB P.C. BOARD (VEP83353D: NTSC, VEP83353E: PAL)

REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC	REC	LOC
IC101	C3	IC116	G3	IC130	G1	IC144	B3	IC160	I3	IC19	B2	IC23	I3
IC102	E2	IC117	G2	IC131	G2	IC145	I4	IC161	H2	IC20	A2	IC26	F2
IC103	D3	IC118	D4	IC132	D2	IC146	H4	IC162	H2	IC201	F4	IC27	F1
IC104	D3	IC119	D4	IC133	D2	IC147	H4	IC163	I2	IC202	F4	IC28	G1
IC105	D3	IC120	C4	IC134	A4	IC148	H2	IC164	H3	IC203	F4	IC503	I2
IC107	E4	IC121	C3	IC135	B4	IC149	G4	IC165	B2	IC204	F4	IC504	I2
IC108	E4	IC122	D4	IC136	A4	IC150	G4	IC166	B2	IC205	E4	IC505	J2
IC109	F4	IC123	C3	IC137	B4	IC151	G4	IC167	C2	IC206	E4	IC507	H1
IC110	E3	IC124	B3	IC138	B4	IC152	G3	IC168	C2	IC207	E4	IC508	H1
IC111	E3	IC125	E2	IC139	B3	IC153	G4	IC169	C2	IC208	E4	IC603	I2
IC112	F3	IC126	E2	IC140	B3	IC154	H3	IC170	F4	IC209	E4	Q1	E3
IC113	F3	IC127	F2	IC141	A3	IC156	G3	IC171	B3	IC21	B2	Q501	H1
IC114	D4	IC128	I4	IC142	B3	IC158	H4	IC172	B5	IC210	F4	QR501	H1
IC115	F2	IC129	J4	IC143	A3	IC159	H4	IC18	A2	IC211	E5		

(FOIL SIDE)

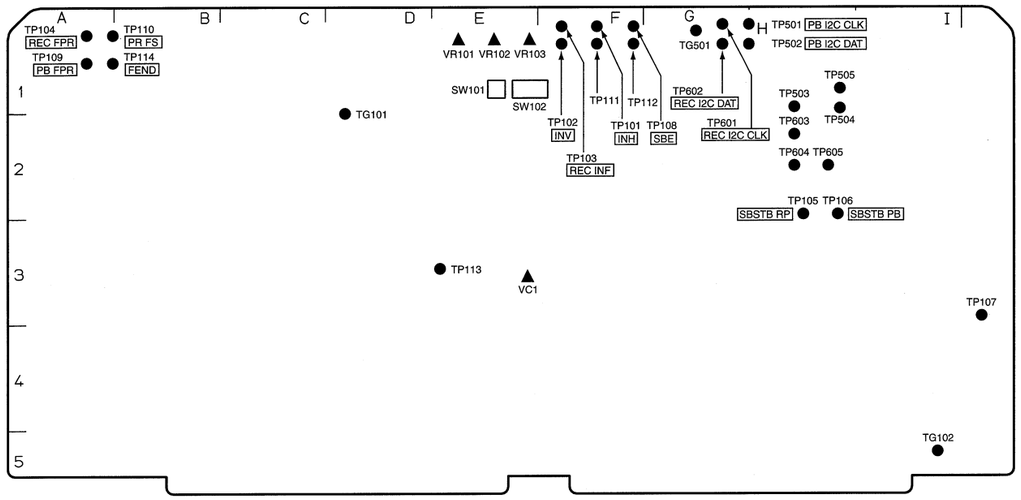


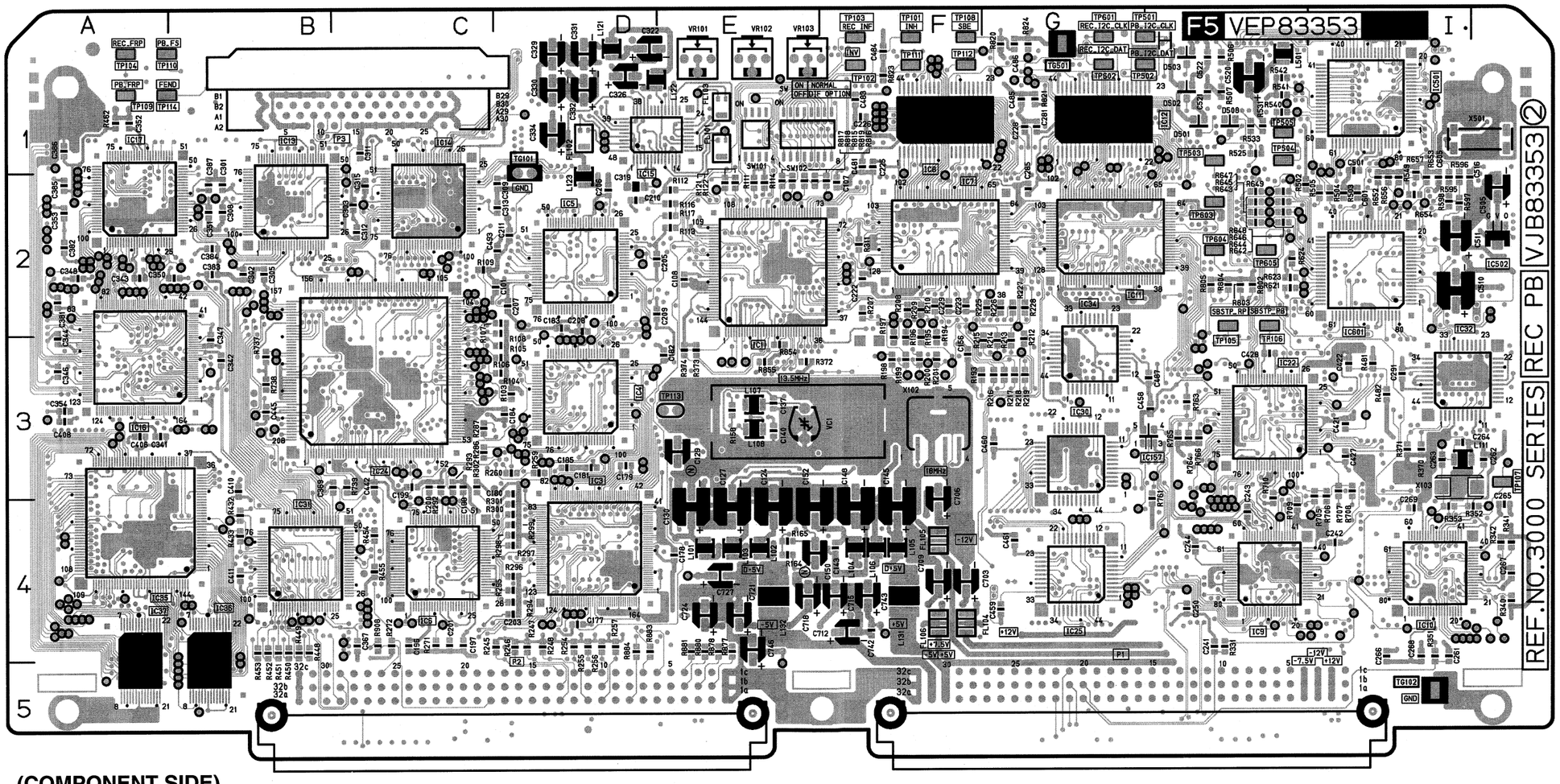
(FOIL SIDE)

F5: REC PB P.C. BOARD (VEP83353D: NTSC, VEP83353E: PAL)

REF	LOC	REC	LOC	REC	LOC	REC	LOC	REC	LOC
IC1	E2	IC30	G3	IC8	F1	TP105	H2	TP505	H1
IC10	I4	IC31	C4	IC9	H4	TP106	H2	TP601	G1
IC11	G2	IC32	I3	P1	G5	TP107	J3	TP602	G1
IC12	G1	IC34	G3	P2	D5	TP108	F1	TP603	H2
IC13	B2	IC35	A4	P3	C1	TP109	A1	TP604	H2
IC14	C2	IC36	B5	SW101	E1	TP110	A1	TP605	H2
IC15	D1	IC37	A5	SW102	E1	TP111	F1	VC1	E3
IC157	H3	IC4	D3	TG101	D2	TP112	F1	VR101	E1
IC16	A3	IC5	D2	TG102	I5	TP113	E3	VR102	E1
IC17	A2	IC501	I1	TG501	G1	TP114	A1	VR103	E1
IC22	H3	IC502	J2	TP101	F1	TP501	H1	X102	F3
IC24	C3	IC6	C4	TP102	F1	TP502	H1	X103	I3
IC25	G4	IC601	I2	TP103	F1	TP503	H1	X501	J1
IC3	D4	IC7	F2	TP104	A1	TP504	H1		

(COMPONENT SIDE)



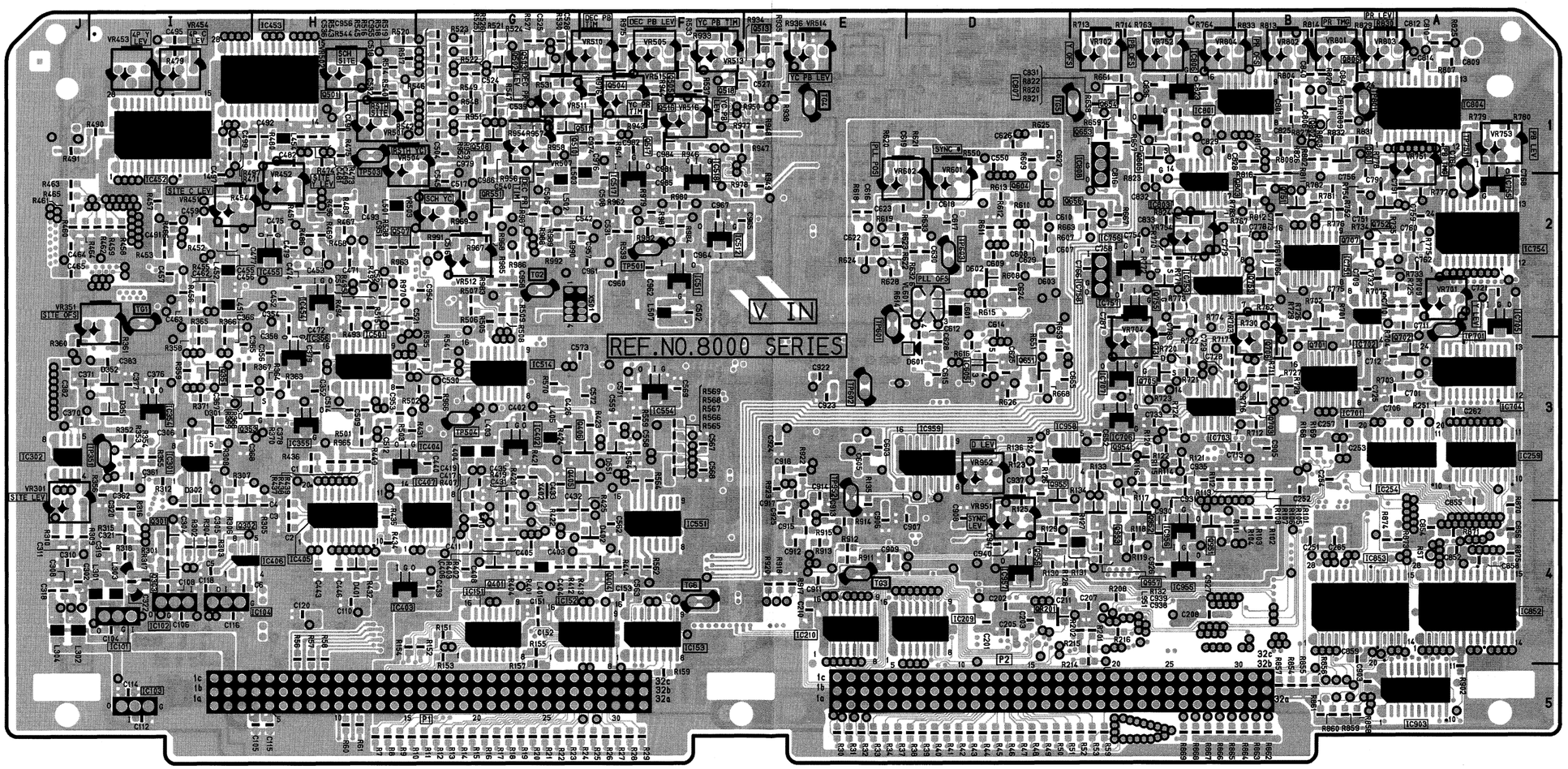


(COMPONENT SIDE)

F6: V IN P.C. BOARD (VEP83397B: 450 (NTSC), VEP83397A: Japan only)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC
IC404	H3	IC151	G4	IC551	F4	IC756	C2	IC959	D3	Q505	F1	Q701	B2	Q806	B1
IC405	H4	IC152	F4	IC554	F3	IC757	C2	Q301	I4	Q507	H2	Q702	A3	Q951	C4
IC406	I4	IC153	F4	IC605	D3	IC801	B1	Q302	I4	Q508	G1	Q703	B3	Q952	C4
IC407	G4	IC209	D4	IC701	B3	IC803	C2	Q303	I4	Q510	G1	Q705	C3	Q953	C4
IC452	I1	IC210	E4	IC702	B2	IC804	A1	Q351	I3	Q511	F1	Q706	B3	Q954	C3
IC453	H1	IC254	A3	IC703	C3	IC806	C1	Q353	H3	Q513	E1	Q707	B2	Q955	D3
IC454	H2	IC259	A3	IC704	A3	IC807	C1	Q401	G4	Q516	F1	Q751	B2	Q956	D4
IC455	H2	IC301	I3	IC705	A2	IC852	A4	Q404	F4	Q517	F1	Q752	B2	Q957	C4
IC501	H3	IC302	J3	IC706	C3	IC853	B4	Q405	F3	Q518	F1	Q753	B2	QR201	D4
IC511	F2	IC354	I3	IC707	C3	IC903	A5	Q406	F3	Q604	D2	Q755	C2	QR551	G2
IC512	F2	IC355	H3	IC751	B2	IC955	C4	Q501	H1	Q651	D3	Q801	B1		
IC514	G3	IC356	H3	IC753	C2	IC956	C4	Q502	G1	Q653	C1	Q802	B1		
IC517	F1	IC402	G3	IC754	A2	IC957	D4	Q503	G1	Q654	C1	Q803	B2		
IC518	F2	IC403	H4	IC755	A2	IC958	D3	Q504	F1	Q656	C2	Q805	C1		

(FOIL SIDE)

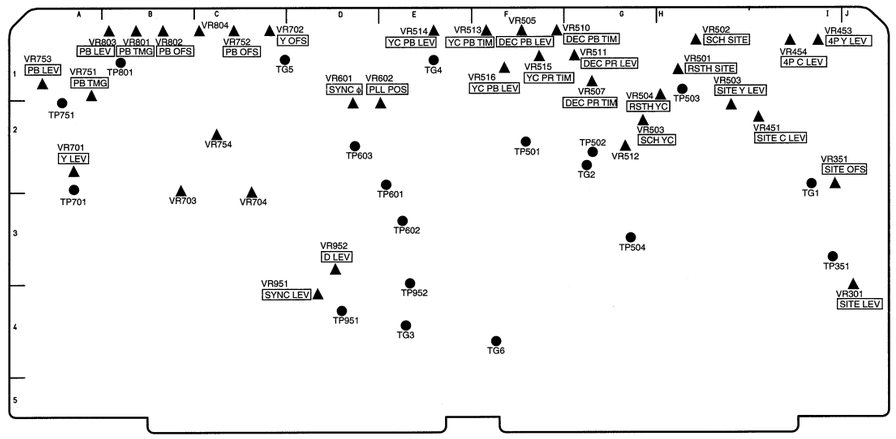


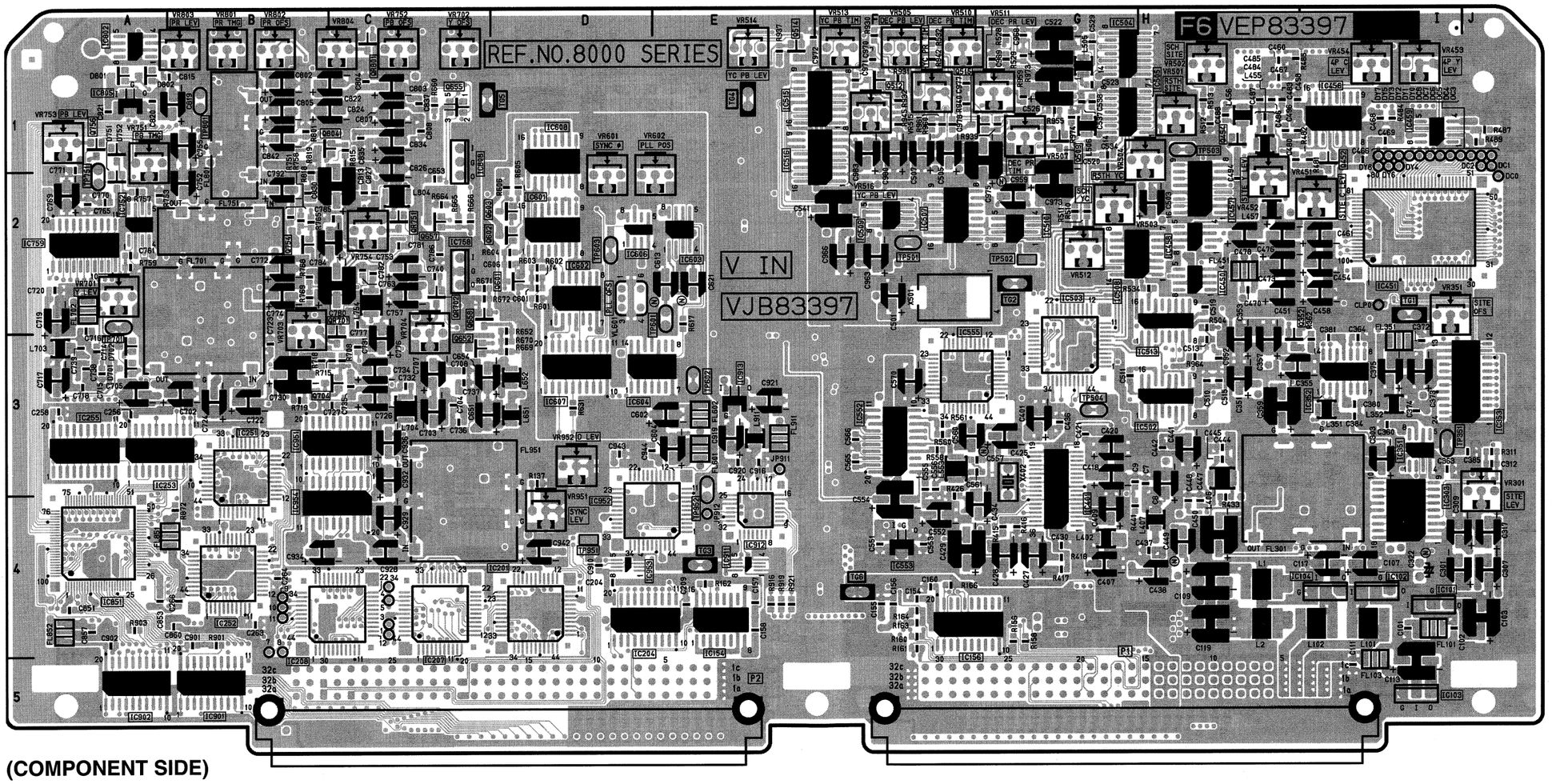
(FOIL SIDE)

F6: V IN P.C. BOARD (VEP83397B: 450 (NTSC), VEP83397A: Japan only)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC	REC	LOC
IC101	I4	IC451	I2	IC602	D2	IC953	D4	Q756	A1	TP701	A2	VR512	G2	VR952	D3
IC102	I4	IC456	I1	IC603	E2	IC954	C4	Q804	B1	TP751	A2	VR513	F1	X402	G3
IC103	I5	IC457	H2	IC604	D3	P1	G5	QR701	C3	TP801	B1	VR514	E1	X501	F2
IC104	I4	IC458	H2	IC606	D2	P2	D5	QR702	C2	TP951	D4	VR515	F1		
IC154	E4	IC459	I1	IC607	D3	Q352	H3	QR751	C2	TP952	E3	VR516	F1		
IC156	F4	IC502	H3	IC608	D1	Q452	I1	QR801	C1	VL601	D2	VR601	D2		
IC201	D4	IC503	G3	IC752	A2	Q454	H1	TG1	I2	VR301	J3	VR602	E2		
IC204	D4	IC504	G1	IC758	C2	Q509	G1	TG2	G2	VR351	I2	VR701	A2		
IC207	C4	IC505	G1	IC759	A2	Q512	F1	TG3	E4	VR451	I2	VR702	C1		
IC208	C4	IC507	F2	IC802	A1	Q514	E1	TG4	E1	VR452	H2	VR703	B2		
IC251	B3	IC508	G2	IC805	A1	Q515	G1	TG5	C1	VR453	I1	VR704	C2		
IC252	B4	IC509	F2	IC808	C1	Q601	D2	TG6	F4	VR454	I1	VR751	A1		
IC253	A3	IC510	G2	IC851	A4	Q602	D2	TP351	I3	VR501	H1	VR752	C1		
IC255	A3	IC513	H2	IC901	B5	Q603	D2	TP501	F2	VR502	H1	VR753	A1		
IC303	I4	IC515	F1	IC902	A5	Q652	C3	TP502	G2	VR503	G2	VR754	C2		
IC351	I3	IC516	F1	IC911	E4	Q655	C1	TP503	H1	VR504	H1	VR801	B1		
IC352	I3	IC552	F3	IC912	E4	Q657	C2	TP504	G3	VR505	F1	VR802	B1		
IC353	J3	IC553	F4	IC913	E3	Q658	C2	TP601	E2	VR507	G1	VR803	B1		
IC401	G3	IC555	F3	IC951	C3	Q704	C3	TP602	E3	VR510	F1	VR804	C1		
IC450	H2	IC601	D2	IC952	D4	Q754	B2	TP603	D2	VR511	G1	VR951	D4		

(COMPONENT SIDE)



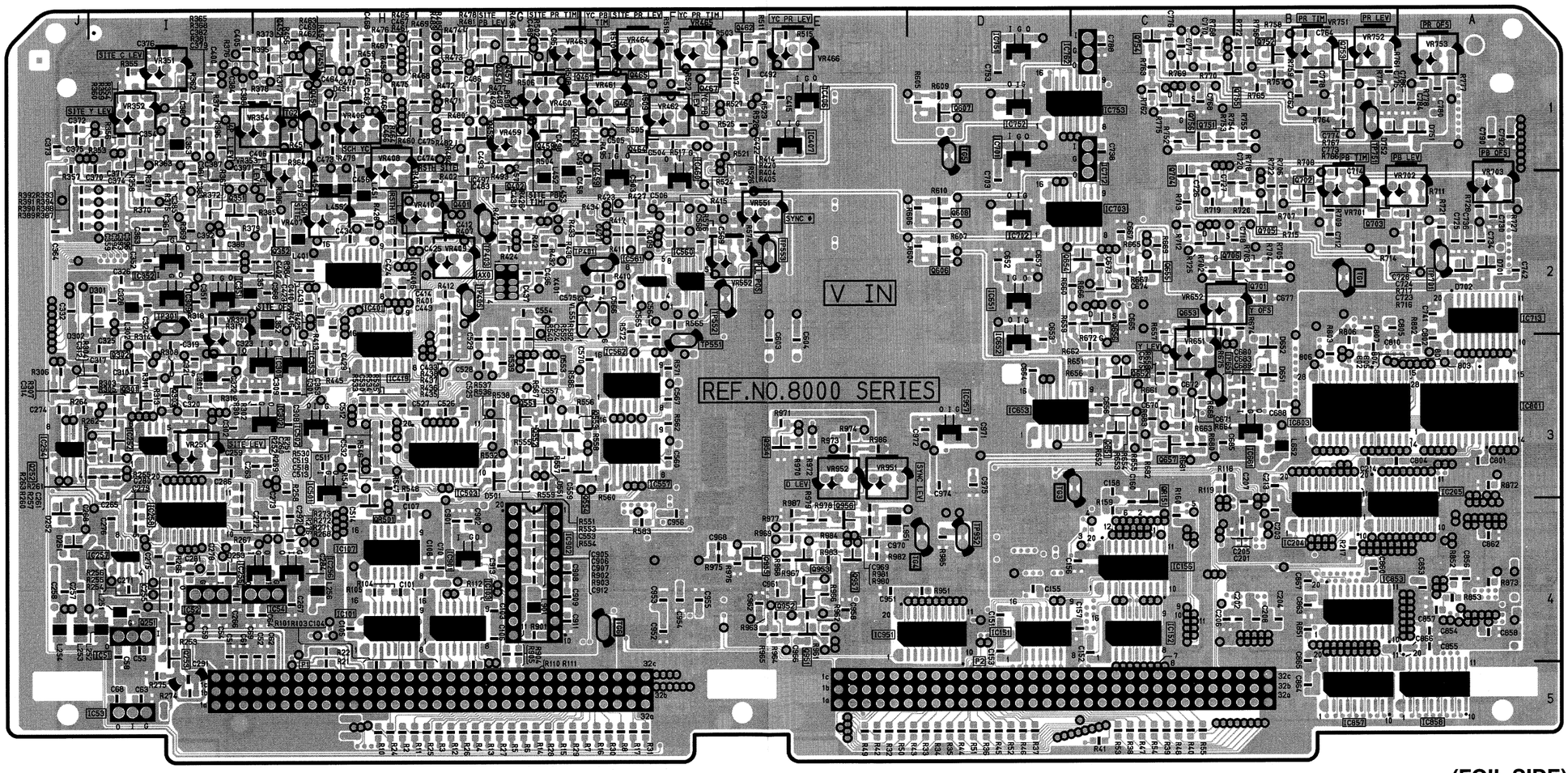


(COMPONENT SIDE)

F6: V IN P.C. BOARD (VEP83398A: 450 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC101	H4	IC301	H3	IC503	G3	IC752	D1	Q302	I3	Q462	F1	Q653	C2	Q754	C1
IC103	G4	IC302	H3	IC557	F3	IC753	C1	Q303	I3	Q463	G1	Q654	C2	Q755	C1
IC107	H4	IC309	I2	IC560	F2	IC801	A3	Q351	I2	Q464	F1	Q655	C2	Q756	C1
IC151	D4	IC351	I2	IC561	F2	IC803	B3	Q352	H2	Q465	F1	Q656	C2	Q951	E4
IC152	C4	IC352	I2	IC562	F3	IC853	B4	Q401	G2	Q467	F1	Q657	C3	Q952	E4
IC156	C4	IC353	H3	IC651	D2	IC857	B5	Q402	G2	Q551	G3	Q701	C2	Q953	E4
IC204	B4	IC401	H2	IC652	D3	IC858	A5	Q451	H1	Q552	G3	Q702	B2	Q954	E3
IC205	A4	IC406	E1	IC653	D3	IC901	G4	Q452	H1	Q553	G3	Q703	B2	Q955	E4
IC252	I3	IC407	E1	IC661	B3	IC951	D4	Q453	G1	Q554	G3	Q704	C2	Q956	E4
IC254	J3	IC419	H3	IC701	D1	IC957	D3	Q454	G1	Q606	D2	Q705	B2	Q957	E4
IC255	H4	IC459	F2	IC702	D2	Q251	I4	Q457	G1	Q607	D1	Q706	C2	QR151	C4
IC256	H4	IC460	F2	IC703	C2	Q252	I3	Q459	G1	Q608	D2	Q751	C1	QR501	H4
IC257	I4	IC501	H3	IC713	A2	Q253	I4	Q460	F1	Q651	C3	Q752	B1		
IC258	I4	IC502	H3	IC751	D1	Q301	I3	Q461	F1	Q652	C3	Q753	B1		

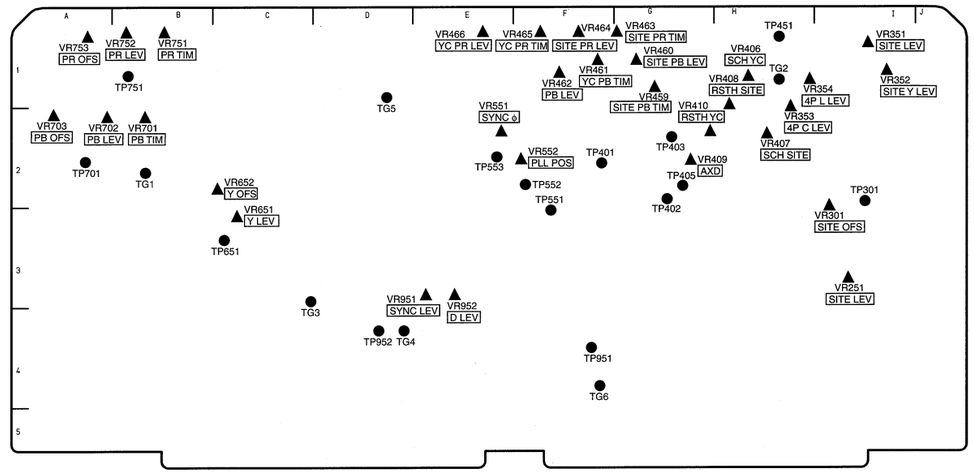
(FOIL SIDE)



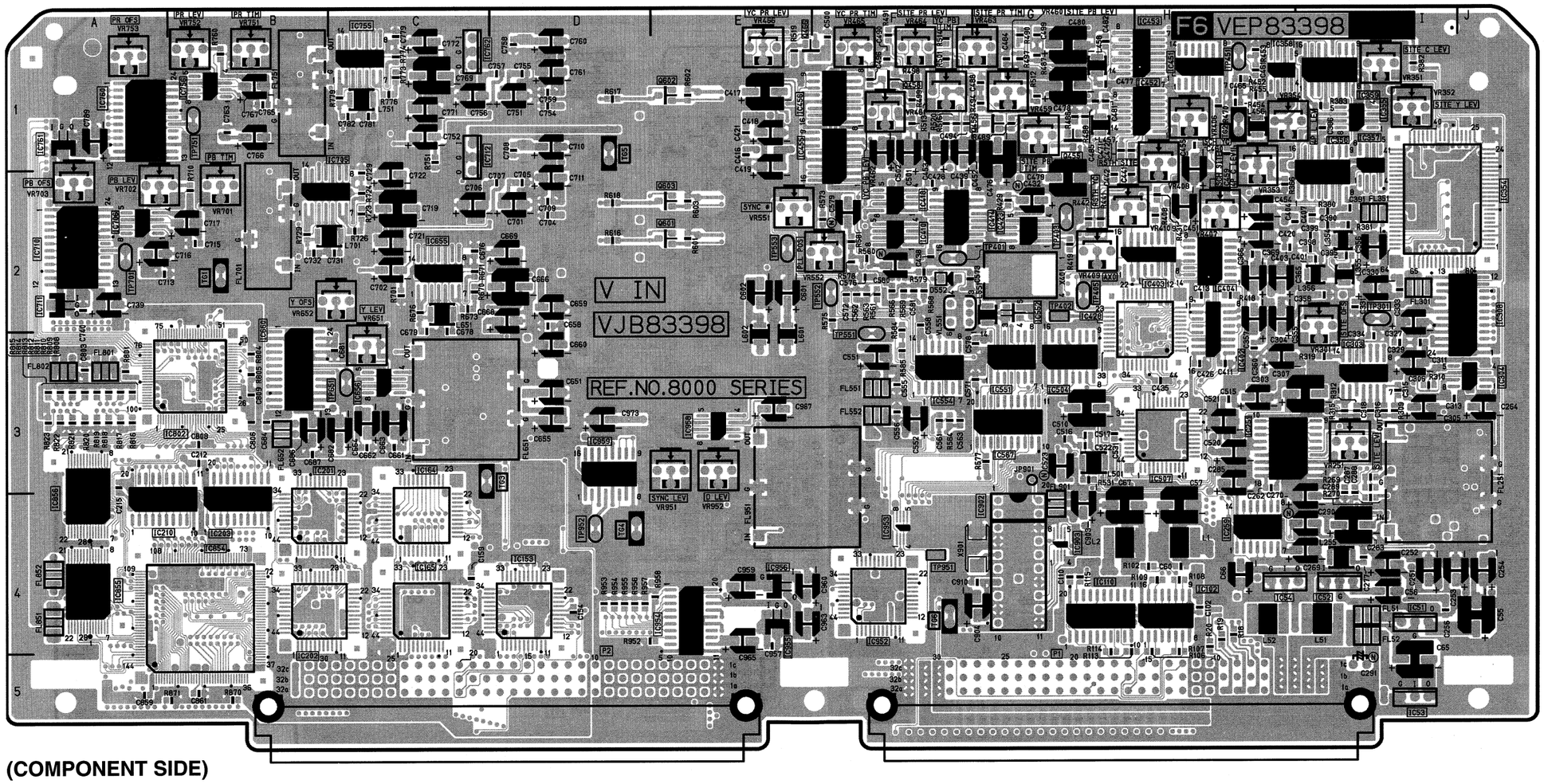
(FOIL SIDE)

F6: V IN P.C. BOARD (VEP83398A: 450 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REC	LOC
IC102	H4	IC402	H2	IC552	G2	IC902	G4	TG3	C3	VR351	I1	VR652	C2
IC110	G4	IC403	H2	IC554	F3	IC903	G4	TG4	D4	VR352	I1	VR701	B2
IC153	D4	IC404	H2	IC567	G3	IC952	F4	TG5	D1	VR353	H1	VR702	A2
IC164	C4	IC410	F2	IC655	C2	IC953	F4	TG6	F4	VR354	H1	VR703	A2
IC165	C4	IC414	F2	IC656	C3	IC954	E4	TP301	I2	VR406	H1	VR751	B1
IC201	B4	IC418	F2	IC660	B3	IC955	E4	TP401	F2	VR407	H2	VR752	B1
IC202	B4	IC423	G2	IC705	B2	IC956	E4	TP402	G2	VR408	H1	VR753	A1
IC203	B4	IC428	H2	IC706	A2	IC958	E3	TP403	G2	VR409	G2	VR951	E3
IC210	A4	IC451	H1	IC710	A2	IC959	D3	TP405	G2	VR410	G2	VR952	E3
IC251	H3	IC452	H1	IC711	A2	P1	G5	TP451	H1	VR459	G1	X401	G2
IC259	H4	IC453	H1	IC712	C1	P2	D5	TP551	F3	VR460	G1	X901	G4
IC303	I3	IC455	F1	IC755	C1	Q455	G1	TP552	F2	VR461	F1		
IC304	J3	IC456	F1	IC756	B1	Q456	G1	TP553	E2	VR462	F1		
IC308	J2	IC504	G3	IC760	A1	Q458	F1	TP651	C3	VR463	G1		
IC354	I2	IC507	H3	IC761	A1	Q466	E1	TP701	A2	VR464	F1		
IC355	I1	IC51	I4	IC762	C1	Q601	E2	TP751	B1	VR465	F1		
IC356	I2	IC52	I4	IC802	B3	Q602	E1	TP951	F4	VR466	E1		
IC357	I1	IC53	I5	IC854	B4	Q603	E2	TP952	D4	VR551	E2		
IC358	H1	IC54	H4	IC855	A4	TG1	B2	VR251	I3	VR552	F2		
IC359	I1	IC551	G3	IC856	A3	TG2	H1	VR301	I2	VR651	C3		



(COMPONENT SIDE)

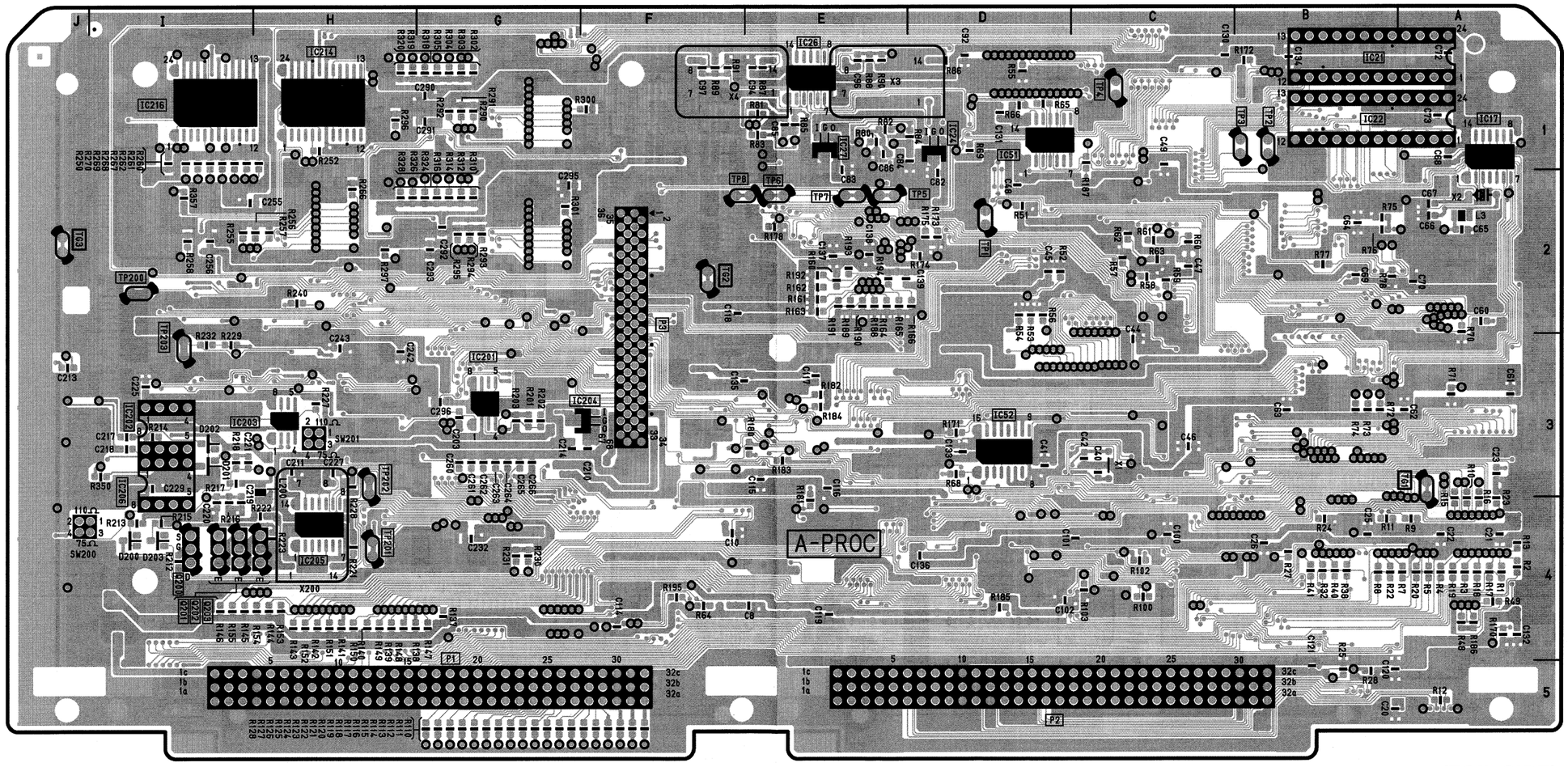


(COMPONENT SIDE)

F7: A PROC P.C. BOARD (VEP84292A: 450, VEP84292D: 440)

REF	LOC
IC17	A1
IC201	G3
IC203	H3
IC204	F3
IC205	H4
IC214	H1
IC216	I1
IC24	D1
IC26	E1
IC27	E1
IC51	D1
IC52	D3

(FOIL SIDE)

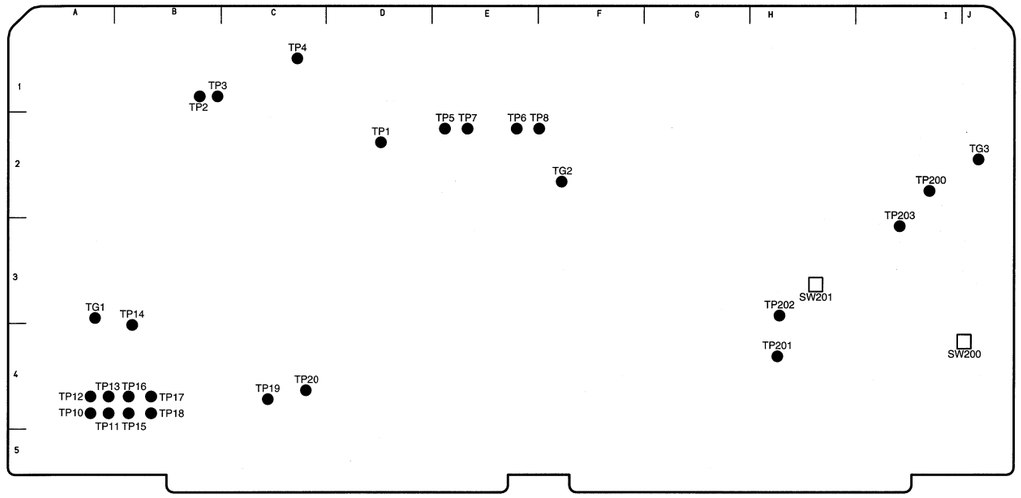


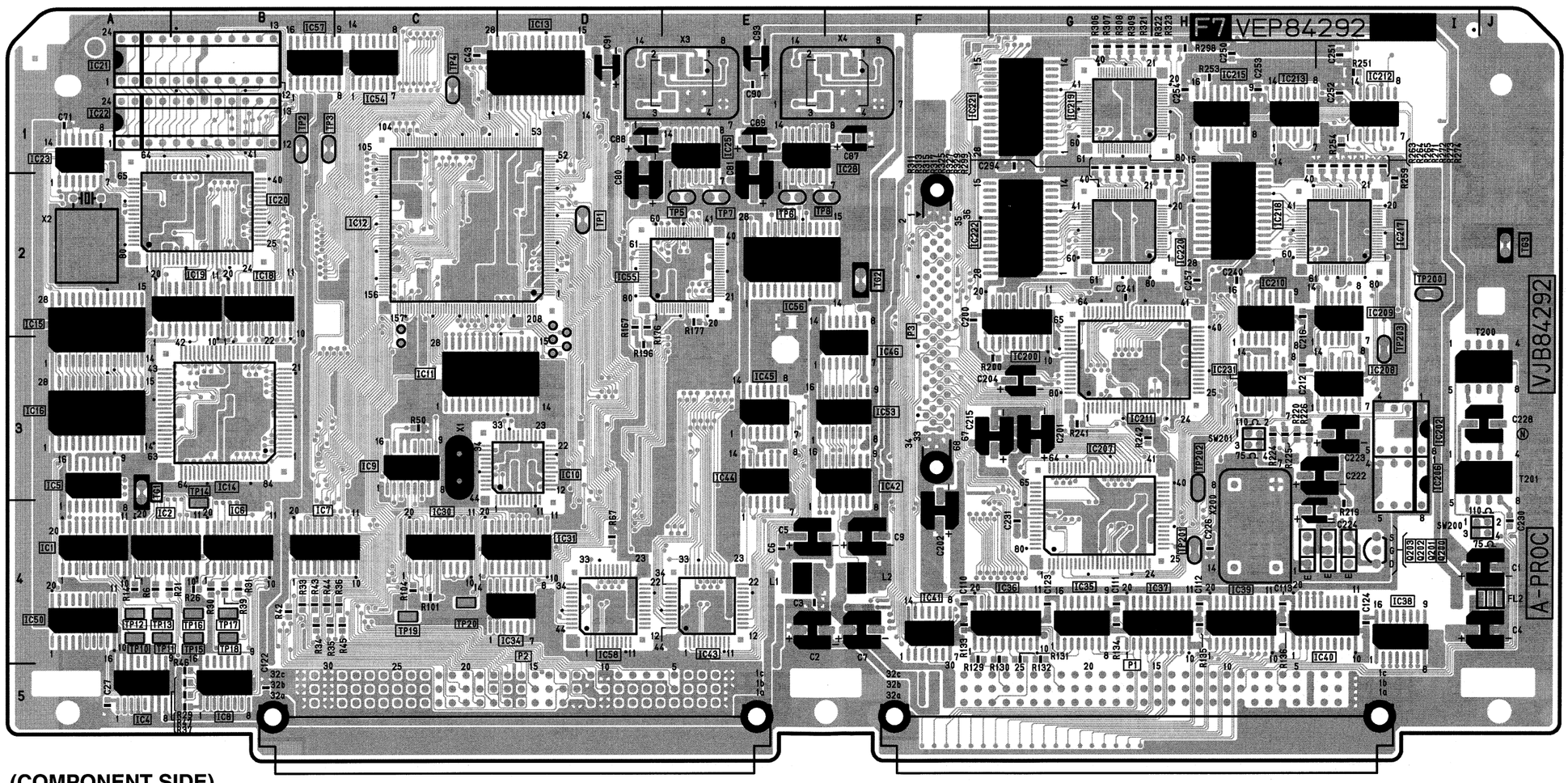
(FOIL SIDE)

F7: A PROC P.C. BOARD (VEP84292A: 450, VEP84292D: 440)

REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC
IC1	A4	IC211	G3	IC37	H4	IC7	C4	TP14	B4	X200	H4
IC10	D3	IC212	I1	IC38	I4	IC8	B5	TP15	B4	X3	D1
IC11	C3	IC213	H1	IC39	H4	IC9	C3	TP16	B4	X3A	E1
IC12	C2	IC215	H1	IC4	A5	P1	G5	TP17	B4	X4	E1
IC13	D1	IC217	I2	IC40	I4	P2	D5	TP18	B4	X4A	F1
IC14	B3	IC218	H2	IC41	F4	P3	F2	TP19	C4		
IC15	A2	IC219	G1	IC42	F3	Q200	I4	TP2	B1		
IC16	A3	IC22	A1	IC43	E4	Q201	I4	TP20	C4		
IC18	B2	IC220	G2	IC44	E3	Q202	I4	TP200	I2		
IC19	B2	IC221	G1	IC45	E3	Q203	H4	TP201	H4		
IC2	A4	IC222	G2	IC46	F3	SW200	J4	TP202	H3		
IC20	B2	IC23	A1	IC5	A3	SW201	H3	TP203	I3		
IC200	G2	IC231	H3	IC50	A4	TG1	A3	TP3	C1		
IC202	I3	IC25	E1	IC53	F3	TG2	F2	TP4	C1		
IC206	I3	IC28	E1	IC54	C1	TG3	J2	TP5	E2		
IC207	G4	IC30	C4	IC55	E2	TP1	D2	TP6	E2		
IC208	I3	IC31	D4	IC56	E2	TP10	A4	TP7	E2		
IC209	I2	IC34	D4	IC57	C1	TP11	A4	TP8	F2		
IC21	A1	IC35	G4	IC58	D4	TP12	A4	X1	C3		
IC210	H2	IC36	G4	IC6	B4	TP13	A4	X2	A2		

(COMPONENT SIDE)



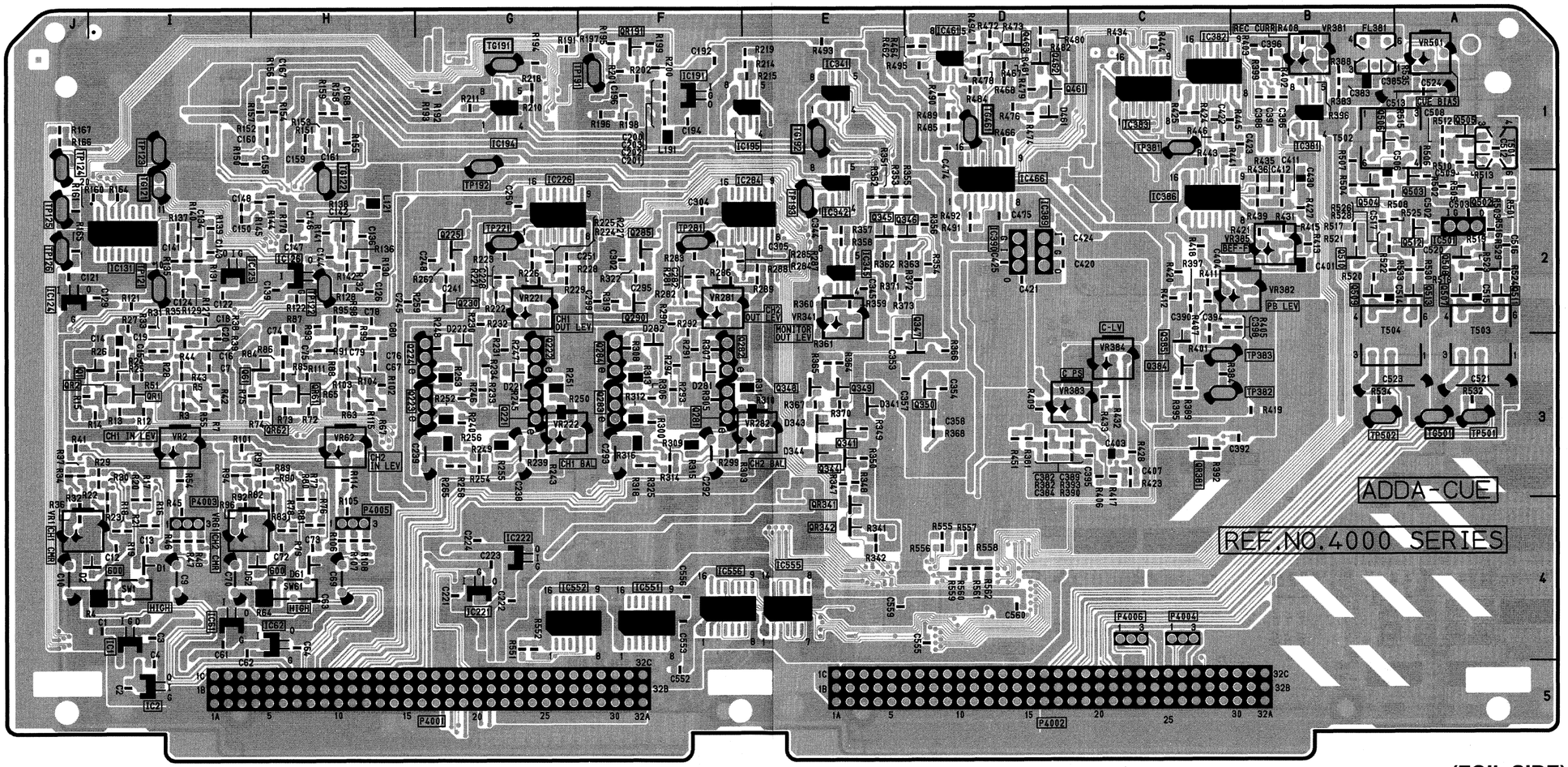


(COMPONENT SIDE)

F8: ADDA/CUE P.C. BOARD (VEP84293A: NTSC, VEP84293B:PAL)

REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC
IC4001	I4	IC4284	E2	Q4001	I3	Q4384	C3	Q4511	A2
IC4002	I5	IC4341	E1	Q4061	H3	Q4385	C3	Q4512	A2
IC4061	I4	IC4342	E2	Q4225	G2	Q4461	D1	Q4513	A2
IC4062	H4	IC4345	E2	Q4230	G2	Q4462	D1	QR4001	I3
IC4124	J2	IC4381	B1	Q4285	F2	Q4463	D1	QR4002	I3
IC4125	I2	IC4382	C1	Q4290	F2	Q4502	A2	QR4061	H3
IC4126	H2	IC4383	C1	Q4341	E3	Q4503	A2	QR4062	H3
IC4131	I2	IC4386	C2	Q4344	E3	Q4504	B2	QR4191	F1
IC4191	F1	IC4461	D1	Q4345	E2	Q4505	A1	QR4341	E4
IC4194	G1	IC4466	D2	Q4346	D2	Q4506	B1	QR4342	E4
IC4195	E1	IC4551	F4	Q4347	D3	Q4507	A2	QR4381	C3
IC4221	G4	IC4552	G4	Q4348	E3	Q4508	A2		
IC4222	G4	IC4555	E4	Q4349	E3	Q4509	B2		
IC4226	G2	IC4556	F4	Q4350	D3	Q4510	B2		

(FOIL SIDE)

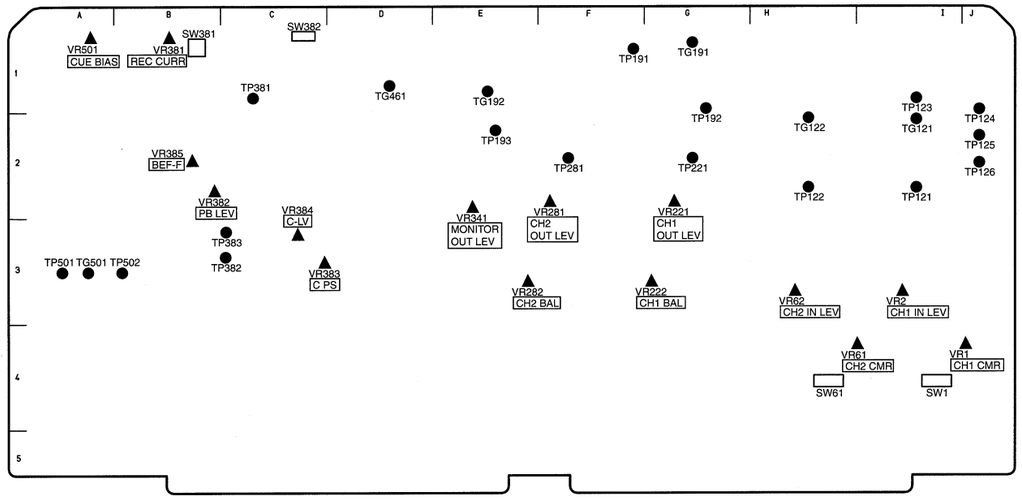


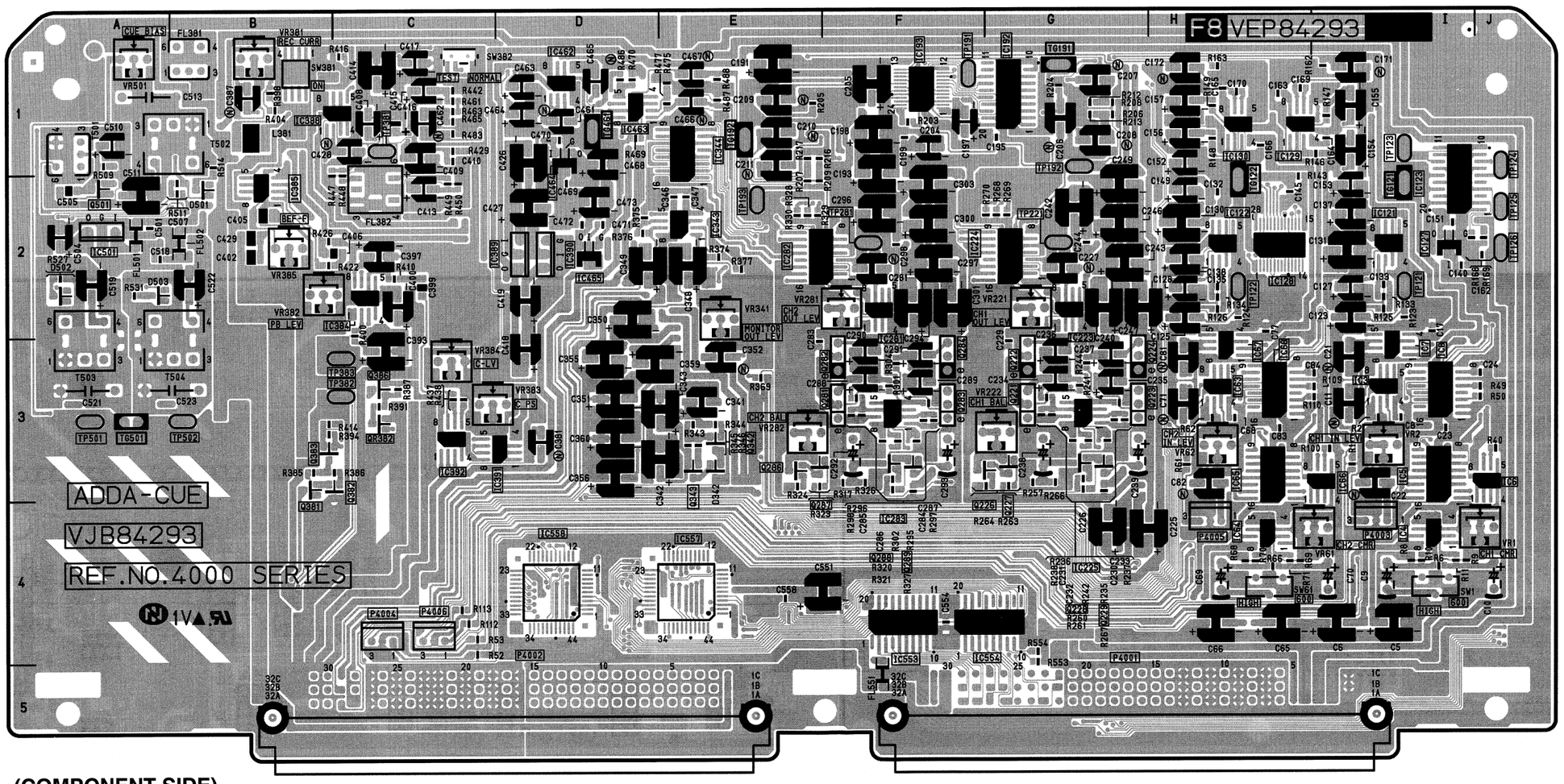
(FOIL SIDE)

F8: ADDA/CUE P.C. BOARD (VEP84293A: NTSC, VEP84293B:PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4003	I3	IC4193	F1	IC4501	A2	Q4282	F3	TG4122	H2	TP4502	B3
IC4004	I4	IC4223	G2	IC4553	F4	Q4283	F3	TG4191	G1	VR4001	J4
IC4005	I3	IC4224	G2	IC4554	G4	Q4284	F3	TG4192	E1	VR4002	I3
IC4006	J3	IC4225	G3	IC4557	E4	Q4286	E3	TG4461	D1	VR4061	I4
IC4007	I3	IC4281	F2	IC4558	D4	Q4287	E3	TG4501	A3	VR4062	H3
IC4008	I3	IC4282	E2	P4001	G5	Q4288	F3	TP4121	I2	VR4221	G2
IC4063	H3	IC4283	F3	P4002	D5	Q4289	F3	TP4122	H2	VR4222	G3
IC4064	H4	IC4343	E2	P4003	I4	Q4342	E3	TP4123	I1	VR4281	F2
IC4065	H3	IC4344	E1	P4004	C4	Q4343	E3	TP4124	J1	VR4282	E3
IC4066	I3	IC4384	C2	P4005	H4	Q4381	B3	TP4125	J2	VR4341	E2
IC4067	H3	IC4385	B2	P4006	C4	Q4382	C3	TP4126	J2	VR4381	B1
IC4068	H3	IC4388	C1	Q4221	G3	Q4383	B3	TP4191	F1	VR4382	B2
IC4121	I2	IC4389	D2	Q4222	G3	Q4386	C3	TP4192	G1	VR4383	C3
IC4122	H2	IC4390	D2	Q4223	G3	Q4501	A2	TP4193	E2	VR4384	C3
IC4123	I2	IC4391	D3	Q4224	G3	QR4382	C3	TP4221	G2	VR4385	B2
IC4127	I2	IC4392	C3	Q4226	F3	SW4001	I4	TP4281	F2	VR4501	A1
IC4128	H2	IC4462	D1	Q4227	G3	SW4061	H4	TP4381	C1		
IC4129	H1	IC4463	D1	Q4228	G3	SW4381	B1	TP4382	C3		
IC4130	H1	IC4464	D1	Q4229	G3	SW4382	C1	TP4383	C3		
IC4192	G1	IC4465	D2	Q4281	F3	TG4121	I2	TP4501	A3		

(COMPONENT SIDE)



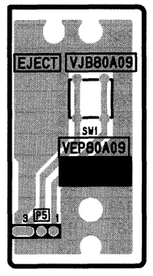


(COMPONENT SIDE)

FRONT CPU P.C. BOARD (VEP86256A: 450, VEP86256B:440) and EJECT P.C. BOARD (VEP80A09A)

REF	LOC
IC12	A1
IC13	A1
Q1	L1
Q2	J1
Q3	I1
Q4	I1
Q5	H1
QR1	I2
QR2	H3
QR3	F4

(FOIL SIDE)



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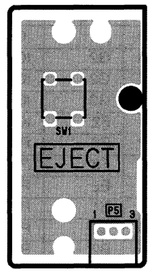

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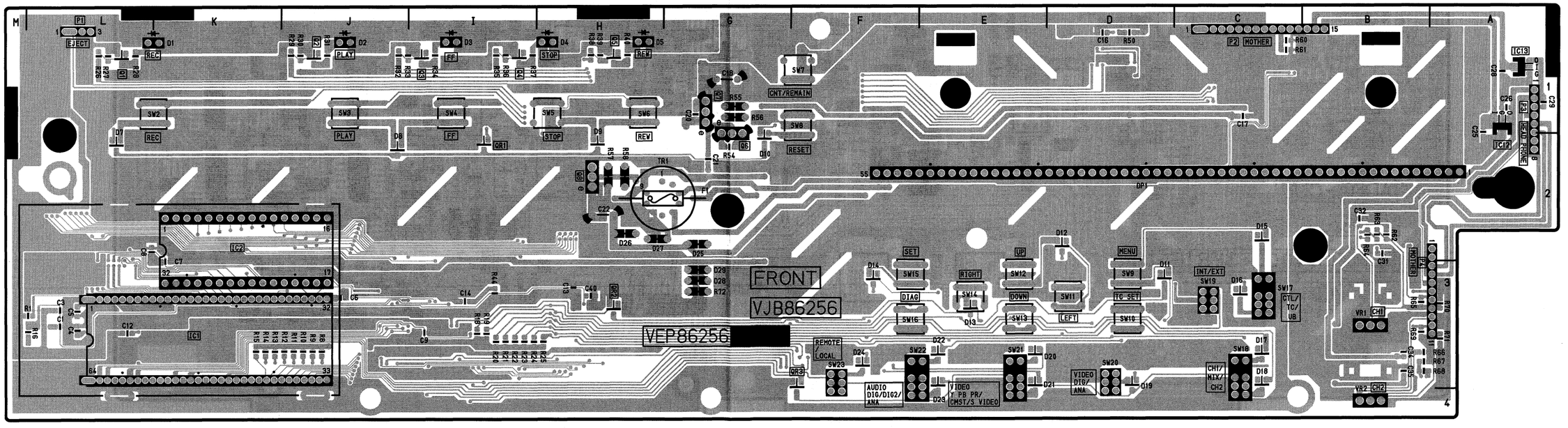
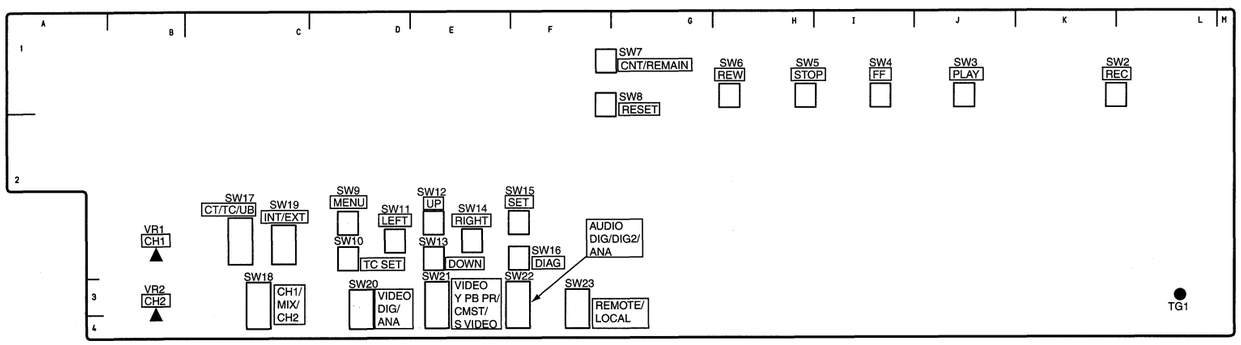


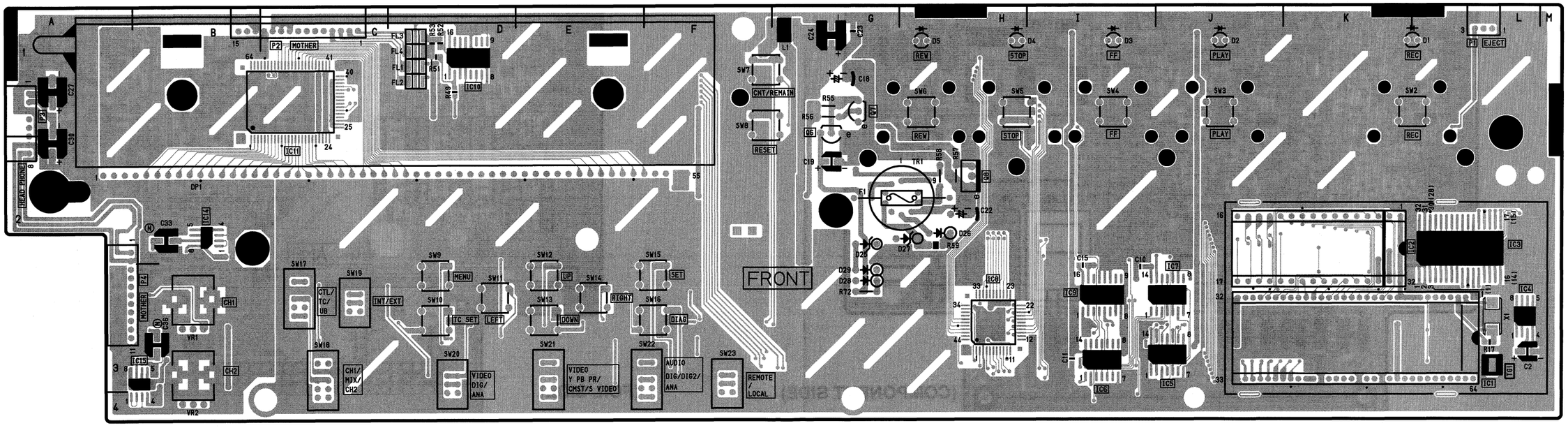
(FOIL SIDE)

FRONT CPU P.C. BOARD (VEP86256A: 450, VEP86256B:440)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	L3	P2	C1	SW18	C3	TG1	L3
IC10	D1	P3	A1	SW19	C3	VR1	B3
IC11	C1	P4	A2	SW2	L1	VR2	B3
IC14	B2	Q6	G2	SW20	D3	X1	L3
IC15	B3	Q7	G1	SW21	E3		
IC2	K2	Q8	H2	SW22	F3		
IC3	L2	SW10	D3	SW23	F3		
IC4	L3	SW11	D3	SW3	J1		
IC5	J3	SW12	E3	SW4	I1		
IC6	I3	SW13	E3	SW5	H1		
IC7	J3	SW14	E3	SW6	H1		
IC8	H3	SW15	F3	SW7	F1		
IC9	I3	SW16	F3	SW8	F1		
P1	L1	SW17	C3	SW9	D3		

(COMPONENT SIDE)





(COMPONENT SIDE)

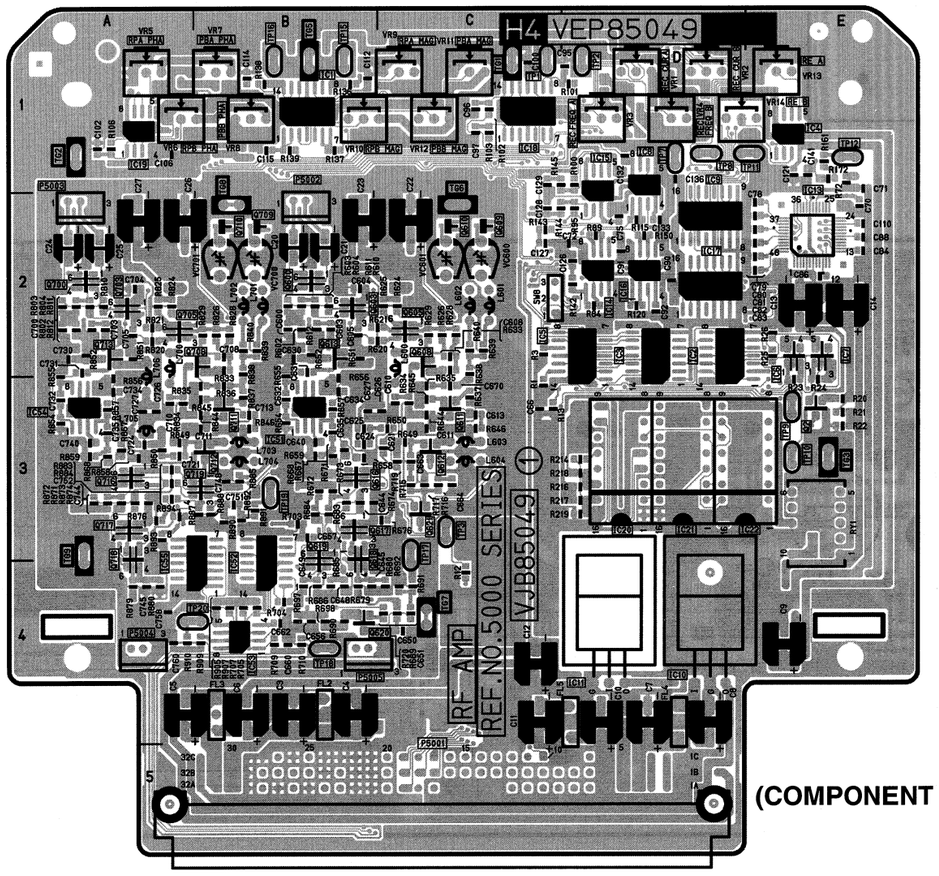
RF AMP P.C.BOARD (VEP85049A)

COMPONENT SIDE

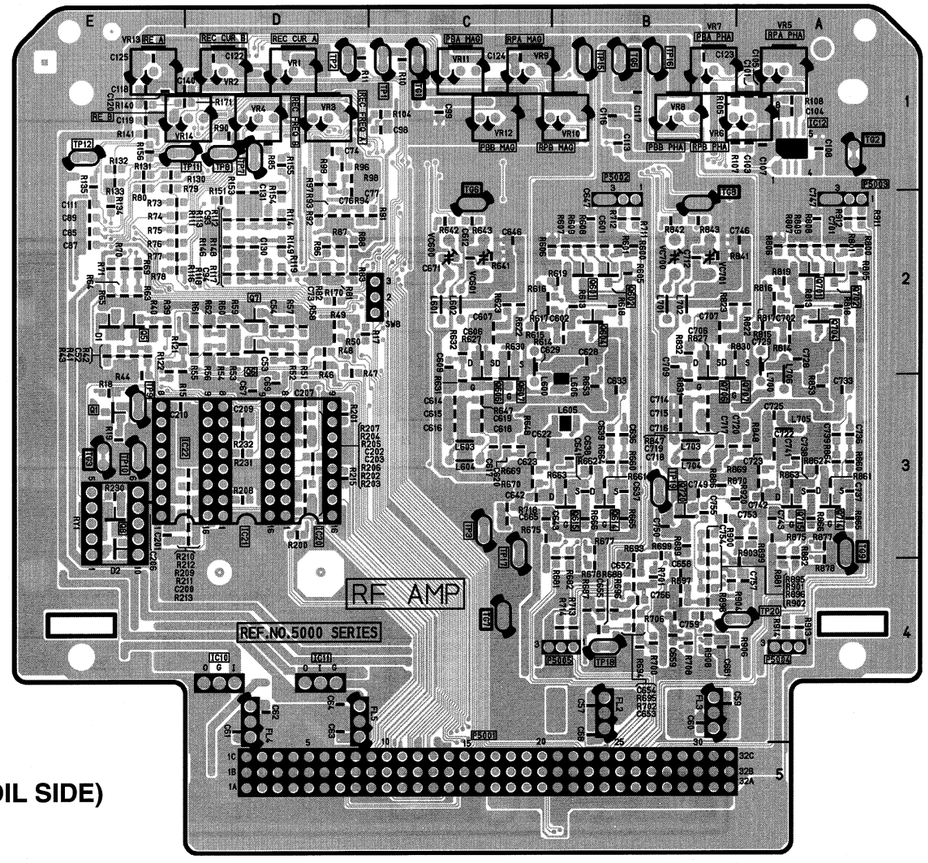
REF	LOC	REF	LOC
IC5010	D4	TP5011	E1
IC5011	D4	TP5012	E1
IC5020	D3	TP5015	B1
IC5021	D3	TP5016	B1
IC5022	E3	TP5017	C3
P5001	C5	TP5018	B4
P5002	B2	TP5019	B3
P5003	A2	TP5020	A4
P5004	A4	VC5600	C2
P5005	B4	VC5601	C2
SW5006	C2	VC5700	B2
TG5001	C1	VC5701	B2
TG5002	A1	VR5001	D1
TG5003	E3	VR5002	D1
TG5005	B1	VR5003	D1
TG5006	C2	VR5004	D1
TG5007	C4	VR5005	A1
TG5008	B2	VR5006	A1
TG5009	A3	VR5007	B1
TP5001	C1	VR5008	B1
TP5002	D1	VR5009	C1
TP5003	C3	VR5010	B1
TP5007	D1	VR5011	C1
TP5008	D1	VR5012	C1
TP5009	E3	VR5013	E1
TP5010	E3	VR5014	D1

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC
IC5001	D1	Q5007	D2	Q5702	A2
IC5002	B2	Q5008	E3	Q5703	E2
IC5003	B2	Q5600	D2	Q5704	A2
IC5004	A1	Q5601	B2	Q5705	E2
IC5005	B2	Q5602	B2	Q5706	B3
IC5006	A2	Q5603	D2	Q5707	B3
IC5007	A2	Q5604	B2	Q5708	D2
IC5008	B1	Q5605	C2	Q5709	D2
IC5009	B2	Q5606	C3	Q5710	D2
IC5012	A1	Q5607	C3	Q5711	D3
IC5013	A2	Q5608	C2	Q5712	D3
IC5014	B2	Q5609	C2	Q5713	E2
IC5015	B1	Q5610	C2	Q5714	A3
IC5016	B2	Q5611	C3	Q5715	A3
IC5017	B2	Q5612	C3	Q5716	E3
IC5018	C1	Q5613	D2	Q5717	E3
IC5019	E1	Q5614	B3	Q5718	E3
IC5051	D3	Q5615	B3	Q5719	D3
IC5052	D4	Q5616	D3	Q5720	B3
IC5053	D4	Q5617	D3		
IC5054	E3	Q5618	D3		
IC5055	D4	Q5619	D4		
Q5001	E3	Q5620	D4		
Q5002	A3	Q5621	C3		
Q5005	E2	Q5700	E2		
Q5006	D2	Q5701	A2		



(COMPONENT SIDE)

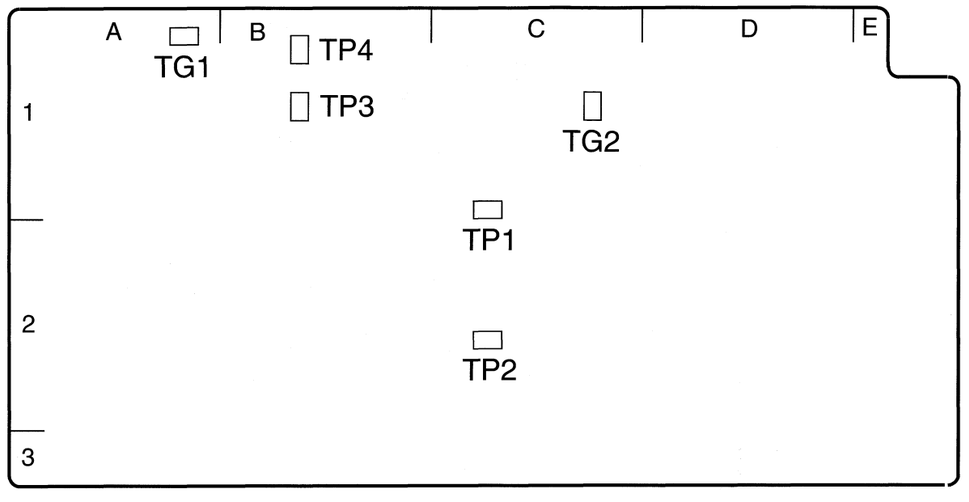


(FOIL SIDE)

HEAD BUFF P.C.BOARD (VEP85151A)

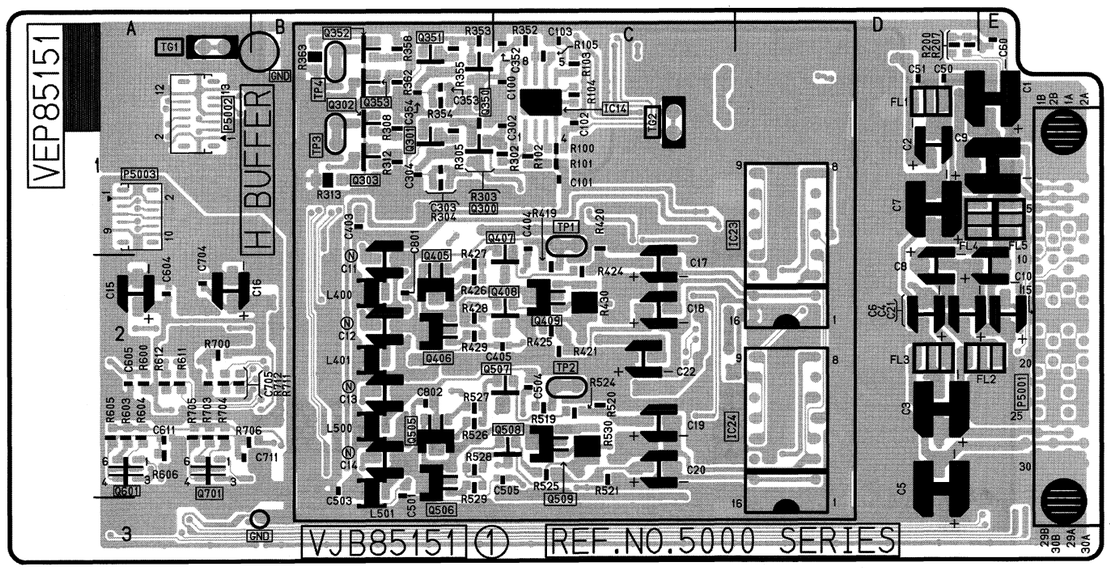
COMPONENT SIDE

REF	LOC
IC14	C1
IC23	D1
IC24	D2
P5001	E2
P5002	A1
P5003	A1
Q300	B1
Q301	B1
Q302	B1
Q303	B1
Q350	B1
Q351	B1
Q352	B1
Q353	B1
Q405	B2
Q406	B2
Q407	C2
Q408	C2
Q409	C2
Q505	B2
Q506	B2
Q507	C2
Q508	C2
Q509	C2
Q601	A2
Q701	A2
TG1	A1
TG2	C1
TP1	C1
TP2	C2

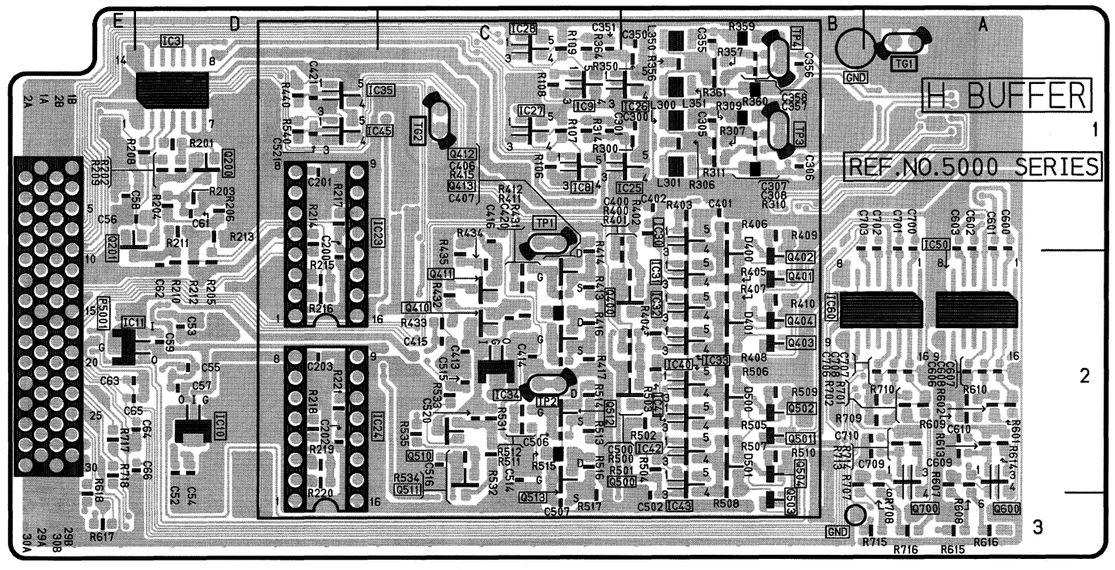


FOIL SIDE

REF	LOC	REF	LOC
TG1	A1	IC27	C1
IC50	A2	IC28	C1
IC90	A2	Q412	C2
Q600	A2	Q413	C2
Q700	A2	Q411	C2
TP3	B1	Q410	C2
TP4	B1	IC34	C2
IC25	B1	TP2	C2
IC26	B1	Q512	C2
IC30	B1	Q513	C2
Q401	B2	Q510	C2
Q402	B2	Q511	C2
Q403	B2	IC35	D1
Q404	B2	IC45	D1
Q501	B2	IC23	D1
Q502	B2	IC3	D1
Q504	B2	Q200	D1
IC31	B2	IC24	D2
IC32	B2	IC10	D2
IC33	B2	Q201	E1
IC40	B2	IC11	E2
IC41	B2	P5001	E2
IC42	B2		
IC43	B2		
Q400	B2		
Q500	B2		
IC9	C1		
IC8	C1		
TP1	C1		
TG2	C1		



(COMPONENT SIDE)

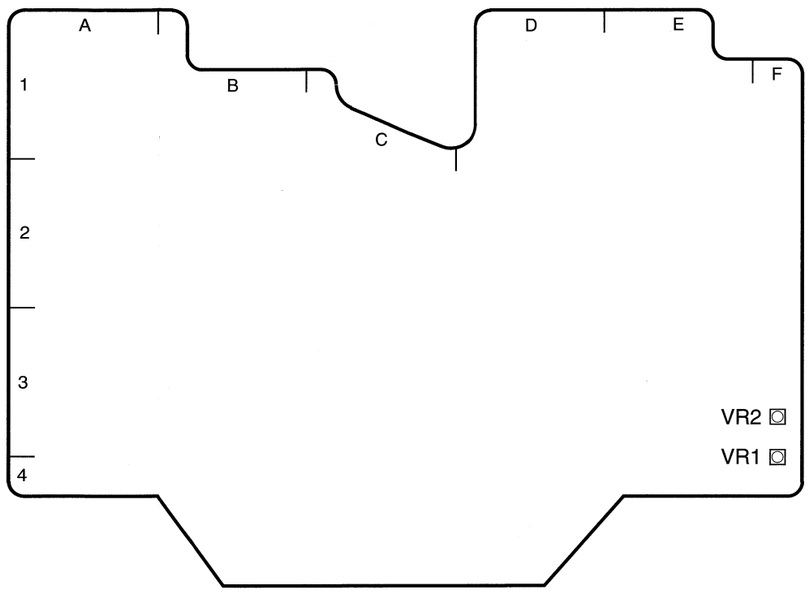


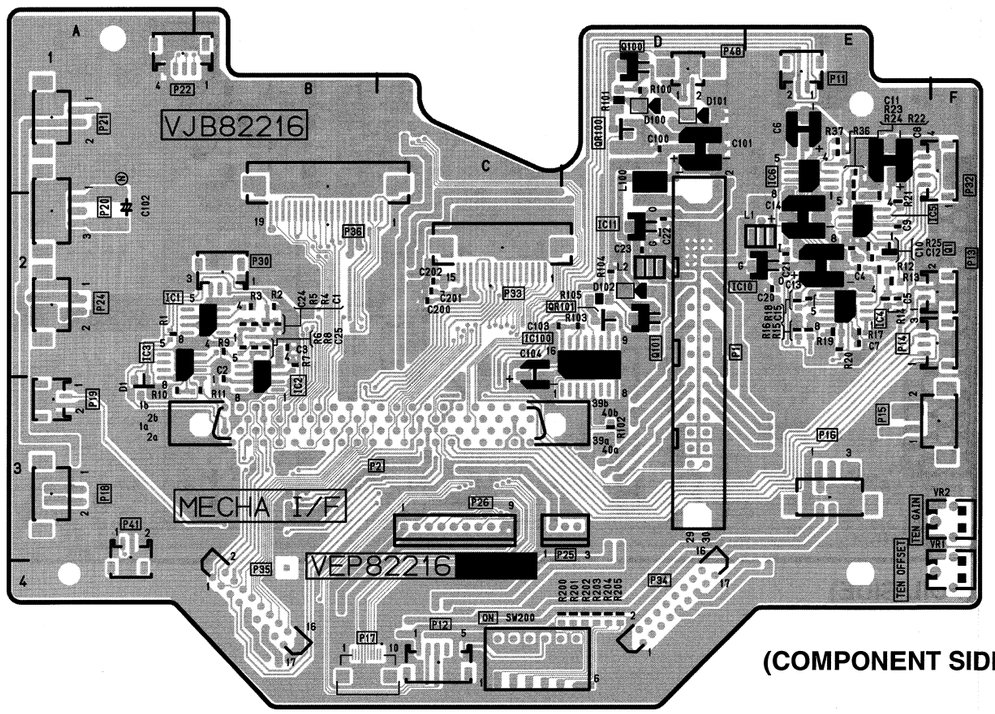
(FOIL SIDE)

MECHA IF P.C.BOARD (VEP82216A)

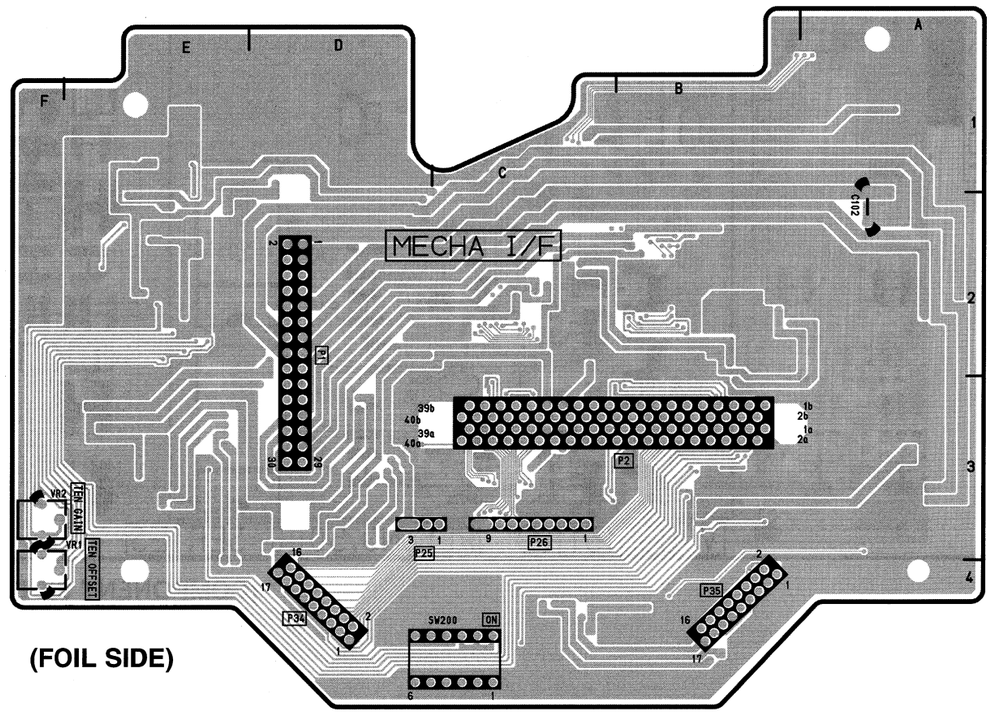
COMPONENT SIDE

REF	LOC	REF	LOC
IC1	B2	P33	C2
IC2	B3	P36	B1
IC3	A2	P41	A3
IC4	E2	P48	D1
IC5	E2	Q1	E2
IC6	E1	Q100	D1
IC10	E2	Q101	D2
IC11	D2	QR100	D1
IC100	D2	QR101	D2
P1	D2	SW200	C4
P2	C3	VR1	F4
P11	E1	VR2	F3
P12	C4		
P13	F2		
P14	F2		
P15	F3		
P16	E3		
P17	B4		
P18	A3		
P19	A3		
P20	A2		
P21	A1		
P22	A1		
P24	A2		
P25	C3		
P26	C3		
P30	B2		
P32	F1		





(COMPONENT SIDE)



(FOIL SIDE)

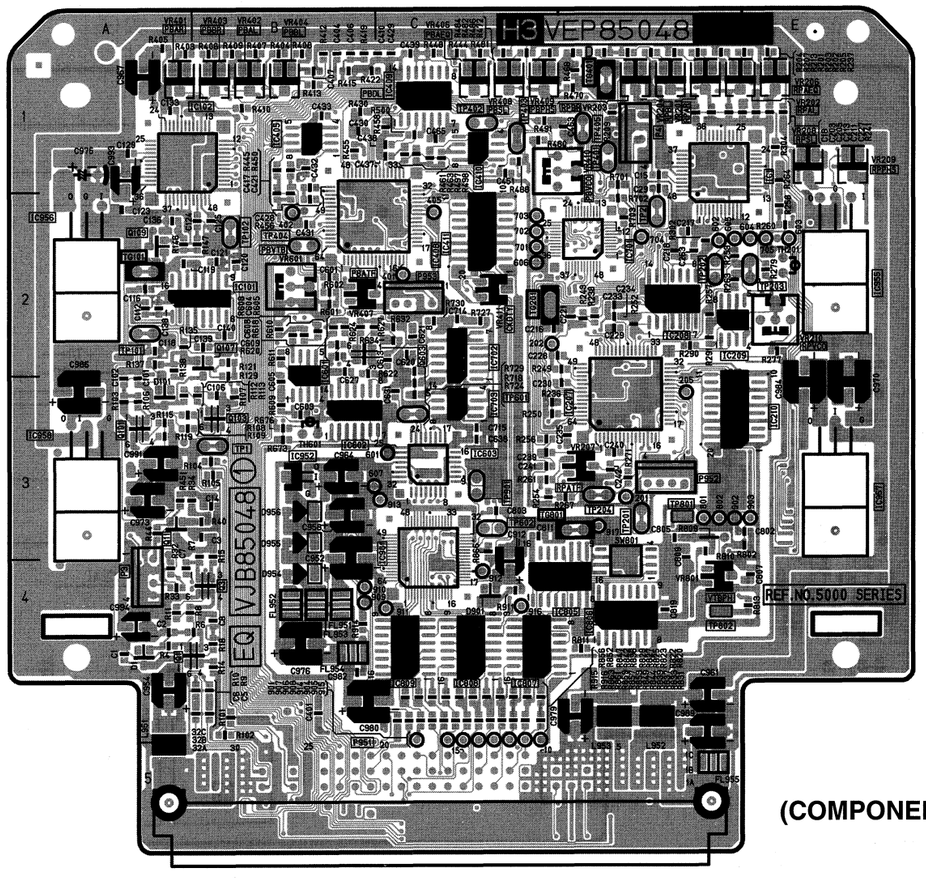
H3: EQ P.C. BOARD (VEP85048A)

COMPONENT SIDE

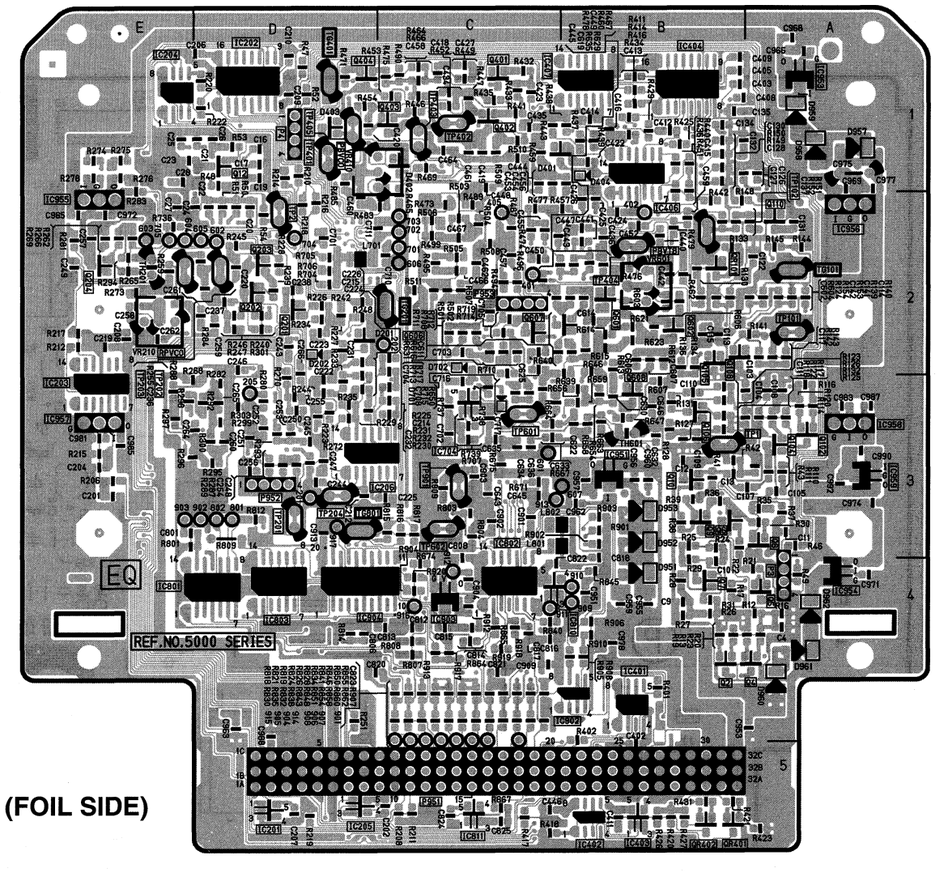
REF	LOC	REF	LOC
IC5955	E2	TP5405	D1
IC5956	A2	TP5601	C3
IC5957	E3	TP5602	C3
IC5958	A3	TP5901	C3
P5003	A3	VR5210	E2
P5004	D1	VR5410	D1
P5951	C5	VR5601	B2
P5952	D3		
P5953	C2		
TG5101	A2		
TG5201	C2		
TG5401	D1		
TG5801	D3		
TP5001	B3		
TP5002	D2		
TP5101	A2		
TP5102	B2		
TP5201	D3		
TP5202	D2		
TP5203	E2		
TP5204	D3		
TP5401	D1		
TP5402	C1		
TP5403	C1		
TP5404	B2		

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC5001	B1	IC5602	D3	Q5001	D4	Q5204	E2	VR5401	E1
IC5101	D2	IC5603	C3	Q5002	B4	Q5401	C1	VR5402	D1
IC5102	D1	IC5701	B2	Q5003	D4	Q5402	C1	VR5403	D1
IC5201	D5	IC5702	C2	Q5004	A4	Q5403	C1	VR5404	D1
IC5202	D1	IC5703	C3	Q5005	A4	Q5404	D1	VR5406	C1
IC5203	E3	IC5704	C3	Q5006	B3	Q5601	B2	VR5407	D2
IC5204	E1	IC5801	D4	Q5007	B4	Q5602	B2	VR5408	C1
IC5205	D5	IC5802	C4	Q5008	A3	Q5603	C2	VR5409	C1
IC5206	D3	IC5803	D4	Q5009	B3	Q5606	B2	VR5411	C2
IC5207	B3	IC5805	B4	Q5010	B3	Q5607	C2	VR5801	B4
IC5208	B2	IC5806	B4	Q5011	E3	Q5608	B3		
IC5209	A2	IC5807	C4	Q5012	D1	QR5101	B2		
IC5210	A3	IC5808	C4	Q5101	E3	QR5401	B5		
IC5401	B4	IC5809	C4	Q5102	A3	QR5402	B5		
IC5402	B5	IC5810	C4	Q5103	D3	SW5801	B4		
IC5403	B5	IC5811	C5	Q5104	A3	TP5801	B3		
IC5404	B1	IC5901	C3	Q5105	B2	TP5802	B4		
IC5405	D1	IC5902	B4	Q5106	B3	VR5201	B1		
IC5406	B1	IC5903	C4	Q5107	D2	VR5202	A1		
IC5407	B1	IC5904	D4	Q5108	B2	VR5203	B1		
IC5408	C2	IC5951	B3	Q5109	E2	VR5204	B1		
IC5409	C1	IC5952	D3	Q5110	A2	VR5206	A1		
IC5410	C1	IC5953	A1	Q5201	D2	VR5207	B3		
IC5411	C2	IC5954	A4	Q5202	D2	VR5208	A1		
IC5601	D3	IC5959	A3	Q5203	D2	VR5209	A1		



(COMPONENT SIDE)



(FOIL SIDE)

POWER 1 P.C. BOARD (VEP81074A: NTSC)

POWER 1 (COMPONENT SIDE)			
Transistors		Connector	
Q1002	C-4	P1001	A-3
Q1003	B-4	P1002	A-1
Q1004	B-4	P1003	A-2
Q1005	B-4	P1004	C-2
Integrated Circuit		P1005	C-3
IC1001	C-4		
IC1002	B-4		
IC1003	B-3		

ADDRESS INFORMATION

POWER 1 (FOIL SIDE)			
Transistors		Connector	
Q1002	C-2	P1001	A-2
Q1003	B-1	P1002	A-4
Q1004	B-1	P1003	A-3
Q1005	B-1	P1004	C-3
Integrated Circuit		P1005	C-1
IC1001	C-1		
IC1002	B-1		
IC1003	B-2		

ADDRESS INFORMATION

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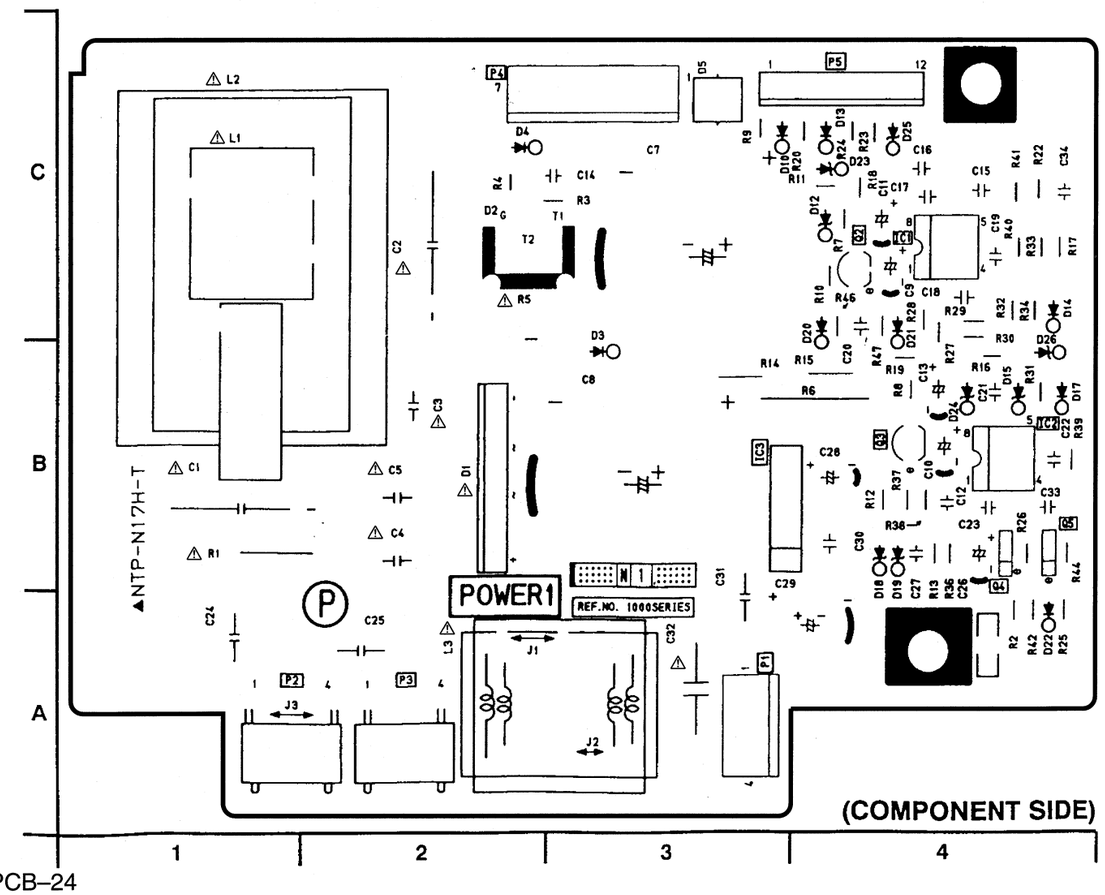
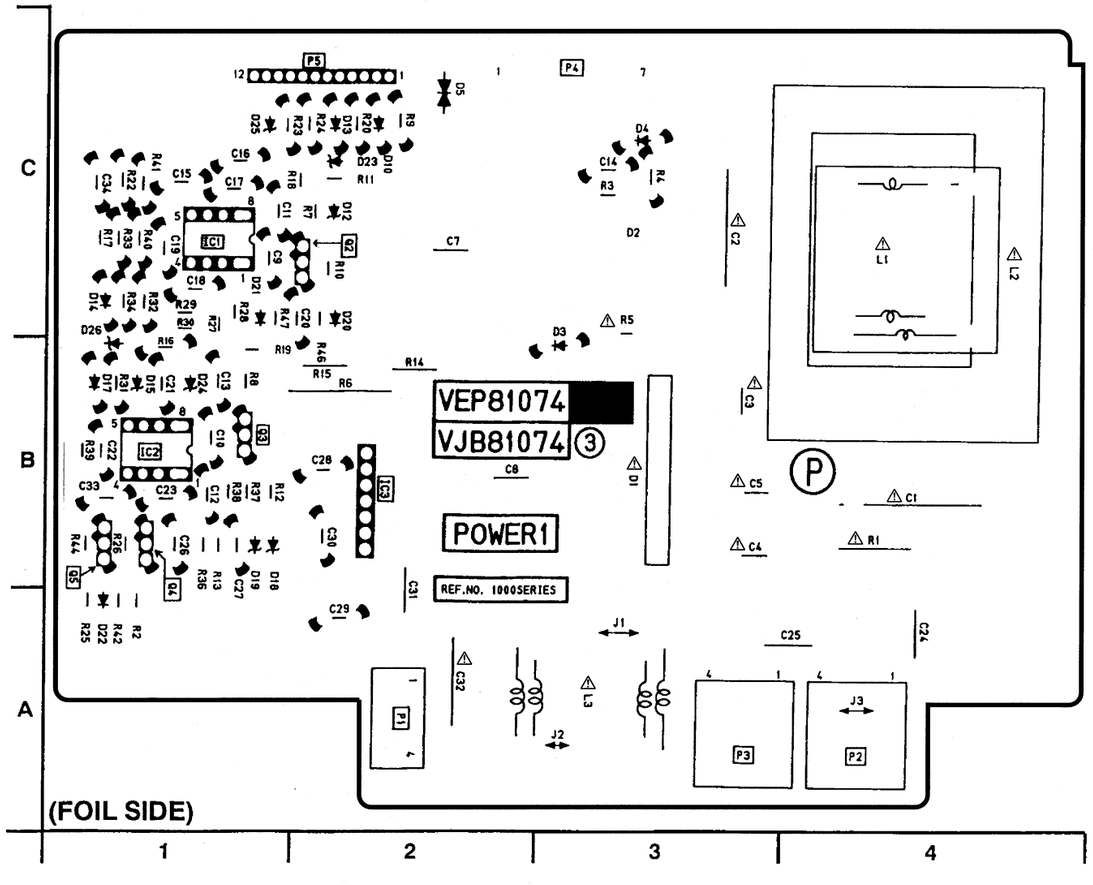




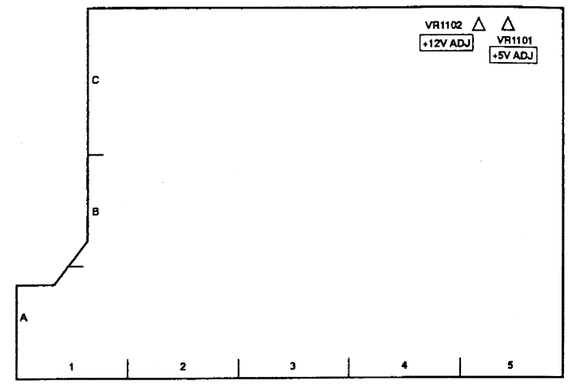
POWER 2 P.C. BOARD (VEP81075A: NTSC)

POWER 2 (FOIL SIDE)			
Transistors		**Adjustment**	
Q1011	C-2	VR1001	C-1
Q1012	C-4	VR1002	C-1
Q1013	C-5	**Connector**	
Q1014	C-1	P1011	A-2
Q1015	C-1	P1012	A-2
Q1016	C-4	P1013	A-3
Q1017	B-5	P1014	A-5
Q1018	B-5	P1015	C-2
Q1019	B-2	P1016	C-4
Integrated Circuit			
IC1011	B-1		
IC1012	B-1		

ADDRESS INFORMATION

POWER 2 (COMPONENT SIDE)			
Transistors		**Adjustment**	
Q1011	C-3	VR1001	C-5
Q1012	C-2	VR1002	C-5
Q1013	C-1	**Connector**	
Q1014	C-5	P1011	A-4
Q1015	C-4	P1012	A-3
Q1016	C-2	P1013	A-3
Q1017	B-1	P1014	A-1
Q1018	B-1	P1015	C-3
Q1019	B-4	P1016	C-2
Integrated Circuit			
IC1011	B-5		
IC1012	B-5		

ADDRESS INFORMATION



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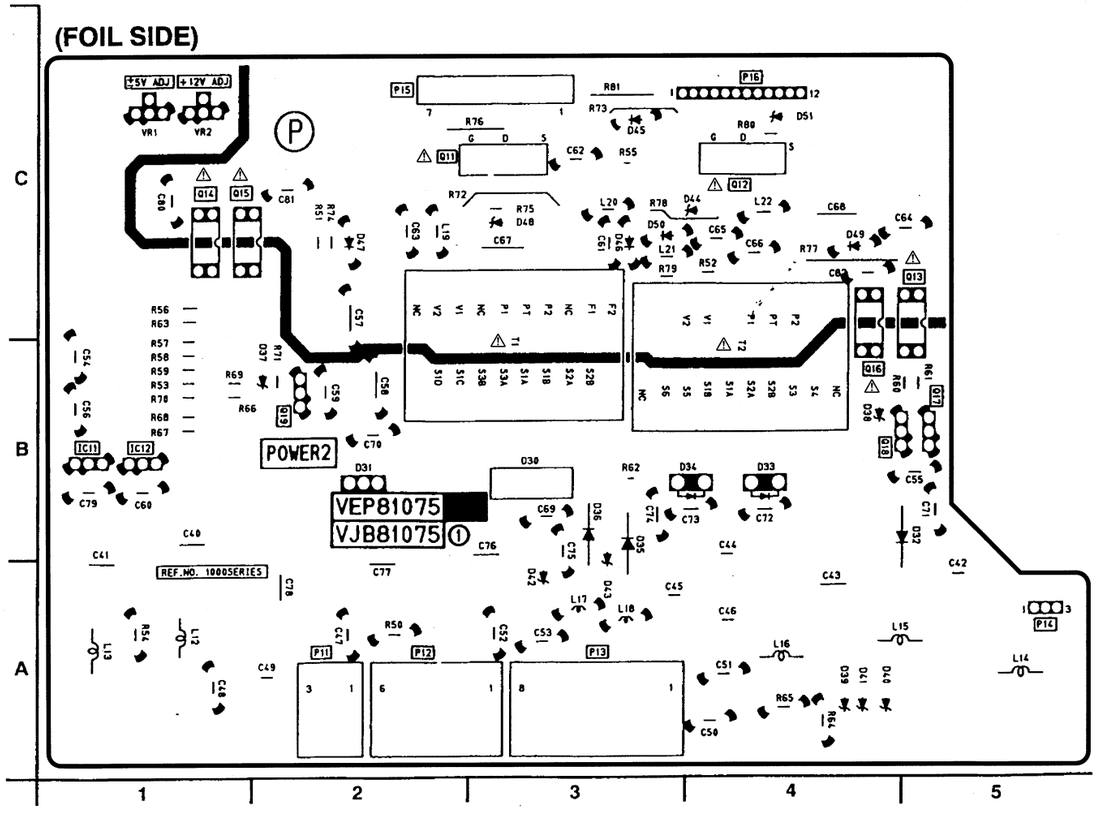
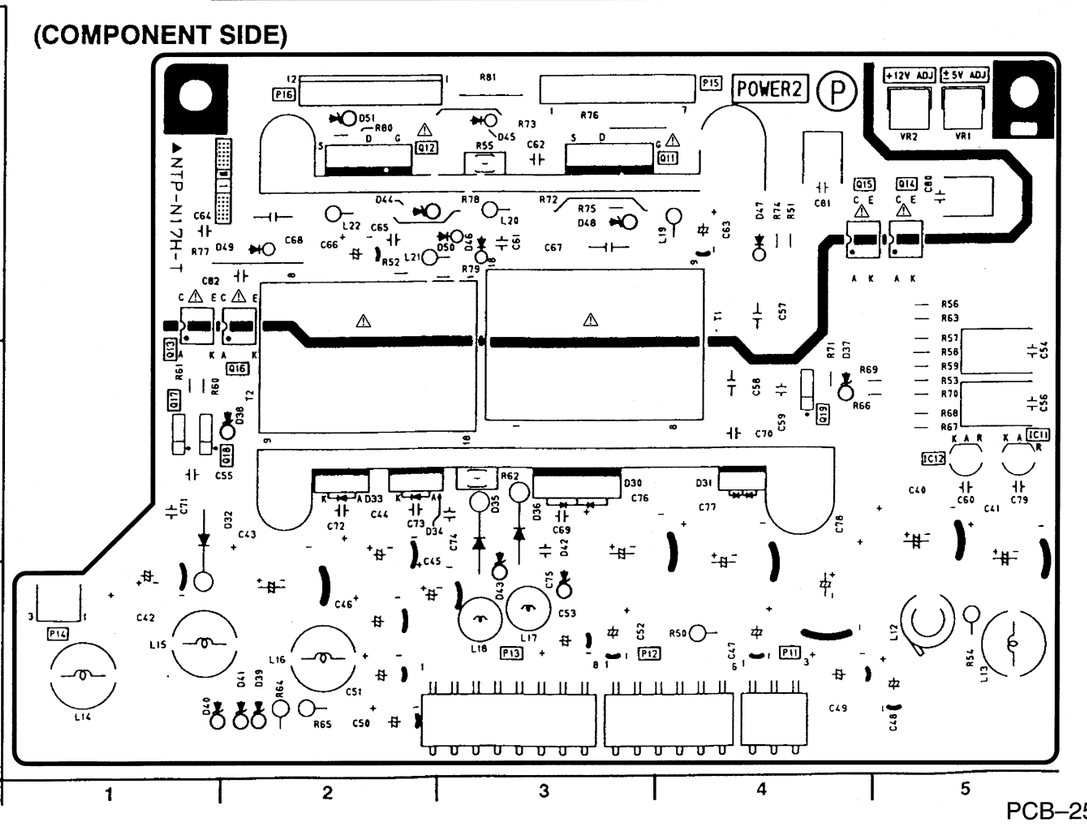
CAUTION

THE □ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

(FOIL SIDE)



(COMPONENT SIDE)



POWER 1 P.C. BOARD (VEP81183A: PAL)

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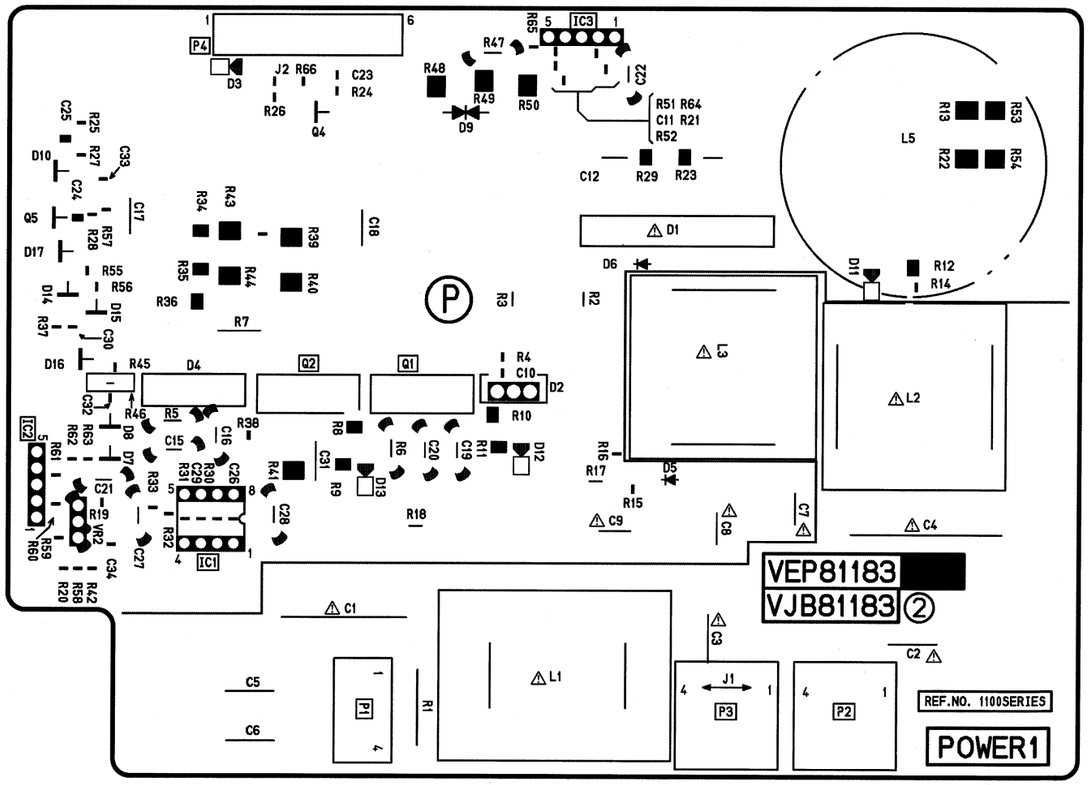

POWER 2 P.C. BOARD (VEP81184B: PAL)

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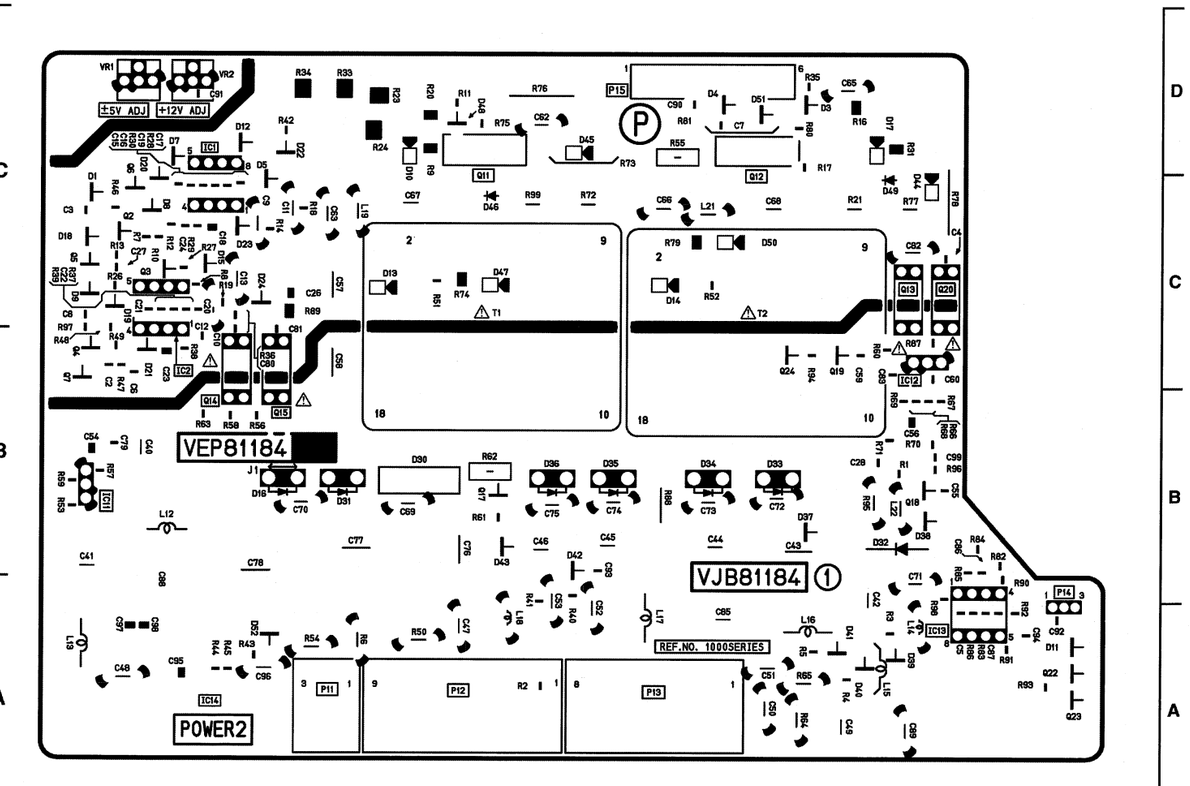
CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



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